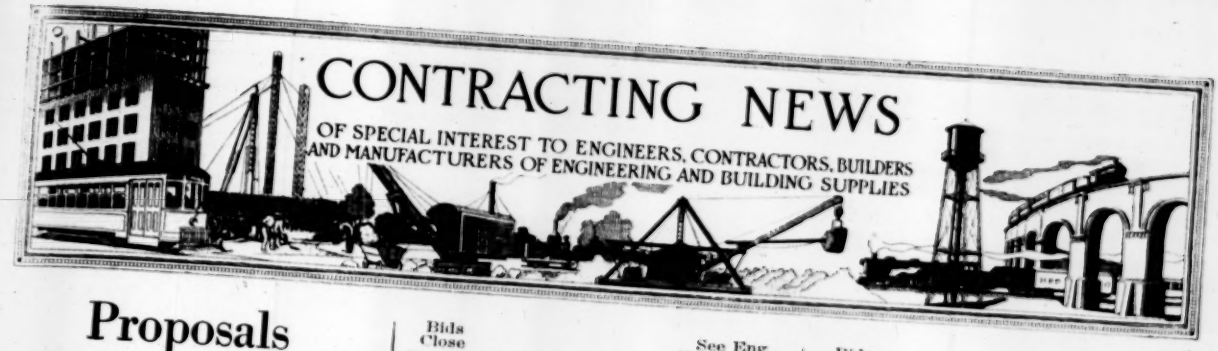
CONTRACTING NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Proposals

For Proposals Advertised See Pages 71 to 77 Inclusive

WATER-WORKS

Bids Close		See Eng. News-Record
June 18.	Brooklyn, N. Y.	June 14
June 18.	Wadsworth, O.	June 14
June 21.	New York, N. Y.	June 7
June 23.	Wickenburg, Ariz.	June 14
June 26.	Livingston, Mont.	June 7
	Adv. June 7 and 14.	June 14
July 1.	Leeds, N. D.	
July 1.	Fessenden, N. D.	June 7
July 2.	Hazen, N. D.	June 7
July 3.	Chardon, O.	June 14
July 10.	Duluth, Minn.	June 14
July 17.	New York, N. Y.	June 14
	Adv. June 7 and 14.	June 14

SEWERS

June 18.	Neodesha, Kan.	June 14
June 18.	St. Paul, Minn.	June 14
June 18.	Creston, Ia.	June 14
June 18.	York, Ont.	June 14
June 19.	Newark, N. J.	June 14
June 19.	Newark, N. J.	May 24
June 19.	Akron, O.	May 31
June 19.	Salt Lake City, Utah	June 7
June 19.	Ghent, O.	June 7
June 19.	Bismarck, N. D.	June 14
June 19.	St. George, S. I., N. Y.	June 14
June 20.	Long Island City, N. Y.	June 14
June 20.	Scarsdale, N. Y.	June 14
	Adv. June 7 and 14.	June 14
June 21.	Bozeman, Mont.	
June 22.	Hillsboro, Wis.	June 14
June 25.	Gary, Ind.	June 14
June 28.	Casper, Wyo.	June 14
June 28.	Chicago, Ill.	June 14
	Adv. May 24.	May 24
July 3.	Davenport, Ia.	
July 12.	Bridgeport, Conn.	June 14
	Adv. June 14.	June 14

STRUCTURAL STEEL WORK

June 18.	Marshall, Minn.	
June 19.	Niagara Falls, N. Y.	June 14
June 19.	Molino, Fla.	June 14
June 20.	Salem, Ore.	June 14
	Adv. May 31 and June 7.	May 31
June 20.	Reily, O.	
June 22.	Pittsburgh, Pa.	June 7
June 26.	Mandan, N. D.	June 14
June 26.	Duval, Wash.	June 14
June 27.	Brownsville, Tenn.	June 14
June 28.	Kinder, La.	June 14
June 29.	Morrillton, Ark.	June 14
	Adv. June 7.	June 7
	Adv. June 7 and 14.	
July 15.	Orange, Tex.	June 7

REINFORCED CONCRETE

June 18.	Donnoha, N. C.	
June 18.	Elizabeth, N. J.	June 7
June 18.	Lisbon, N. D.	June 7
June 19.	Johnstown, Pa.	June 14
	Adv. June 7.	June 7
June 19.	Luverne, Minn.	
June 20.	Canton, O.	May 31
June 20.	Canton, O.	June 14
June 20.	Pikeville, Ky.	May 31
June 20.	Hershey, Pa.	June 14
June 21.	Columbus, O.	June 14
June 21.	Union City, Tenn.	May 31
June 22.	Fergus Falls, Minn.	June 14
June 23.	Schoharie, N. Y.	June 14
	Adv. June 7 and 14.	June 7
June 25.	Olympia, Wash.	
June 25.	Clifton, Ariz.	June 14
June 26.	Belva, W. Va.	June 7
June 26.	Monroe, Mich.	June 14
June 29.	Clarksburg, W. Va.	June 7
July 2.	Hamlin, W. Va.	June 14

STREETS AND ROADS

June 15.	New York, N. Y.	June 14
June 16.	Kingwood, W. Va.	June 7
June 18.	Ft. Ransom, N. D.	
June 18.	New Brunswick, N. J.	May 31
June 18.	Camden, N. J.	May 31
June 19.	Belvidere, N. J.	June 7
June 19.	Salt Lake City, Utah	May 31
June 19.	Wildwood, N. J.	June 7
June 19.	Clinton, N. C.	June 7
	Adv. June 7 and 14.	June 7
June 19.	West Orange, N. J.	
June 20.	Belvidere, N. J.	June 14
	Adv. June 7 and 14.	June 7
June 20.	New Junction, O.	
	Adv. June 7.	June 7
June 20.	Pine Bluff, Ark.	
	Adv. June 7.	June 7
June 20.	Reading, Pa.	
	Adv. June 7 and 14.	June 14
June 20.	Manhattan, Cal.	
June 20.	Brooklyn, N. Y.	June 14
June 20.	Long Island City, N. Y.	June 14
June 21.	Lebanon, Pa.	June 14
	Adv. June 7 and 14.	June 14
June 21.	Griffin, Ga.	
	Adv. June 7 and 14.	June 14
June 21.	Indiana	
June 21.	Newark, N. J.	June 14
June 21.	New York, N. Y.	June 14
June 23.	St. Louis, Mo.	June 14
June 25.	Upland, Cal.	June 14
June 26.	Cleveland, O.	June 14
June 26.	Crowley, La.	June 14
June 26.	Rahway, N. J.	June 14
	Adv. June 7 and 14.	June 14
June 28.	Indiana	
June 28.	Oberlin, La.	June 14
June 30.	Adamston, W. Va.	June 14
July 1.	Pine City, Minn.	June 14
July 2.	Hamlin, W. Va.	May 31
July 2.	Frederick, Md.	June 7
July 2.	Indiana	June 14
July 3.	Indiana	June 14
July 14.	Indiana	June 14
Aug. 13.	Lewiston, Idaho	May 24

EXCAVATION AND DREDGING

June 16.	Yakima, Wash.	June 14
June 16.	Frankfort, Ind.	June 14
June 18.	Petersburg, Ind.	May 24
June 18.	Opelousas, Ia.	May 31
June 18.	Beardstown, Ill.	June 7
	Adv. June 7 and 14.	
June 18.	St. Landry, La.	
June 19.	Madison, S. D.	June 14
June 19.	Mora, Minn.	June 14
June 20.	Onarga, Ill.	June 14
June 22.	Chaska, Minn.	June 14
June 26.	Albany, N. Y.	May 31
	Adv. May 31 to June 14.	May 31
June 26.	Benson, Minn.	
June 28.	Hullett, Ont.	June 14
June 30.	Austin, Minn.	June 14
June 30.	Arcadia, Fla.	June 14

BUILDINGS

June 16.	Ansonia, Conn.	June 14
June 18.	Austin, Tex.	May 31
June 18.	Epworth, Ia.	May 31
June 18.	Batavia, N. Y.	June 14
June 19.	Clearwater, Fla.	May 31
June 19.	New York, N. Y.	June 7
	Adv. June 7.	
June 20.	Wolford, N. D.	June 7
June 20.	Martinsburg, Ia.	June 7
June 20.	Reynolds, Neb.	June 14
June 21.	Hastings, Neb.	June 14
June 22.	Lebanon, O.	June 14
June 22.	Bordentown, N. J.	May 31
June 23.	Ironton, Minn.	June 14
June 23.	St. Augustine, Fla.	June 14
June 23.	Overpeck, O.	June 14
June 25.	Ft. Madison, Ia.	June 14
June 25.	Portsmouth, O.	June 7
June 25.	Augusta, Kan.	June 14
June 25.	De Graff, O.	June 14
June 25.	Syracuse, N. Y.	June 14
June 25.	Nevada, Ia.	June 14
June 26.	Albany, N. Y.	June 14
June 26.	Mt. Vernon, O.	June 7
		June 14

Bids Close		See Eng. News-Record
June 26.	Larned, Kan.	June 14
June 29.	Traer, Ia.	June 14
July 1.	Magnolia, Ark.	June 14
July 1.	Riverton, Minn.	June 14
July 9.	Cleveland, O.	June 7
		June 14

FEDERAL GOVERNMENT WORK

June 16.	Montgomery, Ala.	May 17
	Adv. May 24 to June 7.	
June 16.	San Francisco, Cal.	
June 16.	Wash Woods, N. C.	June 7
	Adv. June 7.	June 7
June 16.	Washington, D. C.	
June 18.	Akron, O.	June 14
June 18.	Pensacola, Fla.	May 17
June 18.	Newport, R. I.	May 31
June 19.	Montevideo, Minn.	June 14
June 19.	Aledo, Ill.	May 17
	Adv. May 24 and 31.	May 17
June 20.	Beaufort, S. C.	
	Adv. May 17.	May 17
June 20.	Ft. Royal, Va.	
June 20.	Galveston, Tex.	May 31
	Adv. May 24 to June 14.	May 31
June 21.	Cambridge, Md.	
June 22.	Butler, Mo.	May 17
June 22.	Fordyce, Ark.	June 7
	Adv. May 17 and 24.	May 24
June 23.	Raton, N. M.	
June 23.	New York, N. Y.	May 17
	Adv. May 24 to June 14.	May 31
June 25.	Washington, D. C.	
June 25.	New Orleans, La.	May 31
	Adv. May 31 to June 14.	May 31
June 25.	Bremerton, Wash.	
June 25.	Washington, D. C.	June 7
June 25.	Annapolis, Md.	June 14
June 25.	Vallejo, Cal.	June 14
	Adv. June 14.	June 14
June 26.	Monesson, Pa.	
June 27.	Vineland, N. J.	May 31
June 28.	New Orleans, La.	June 7
	Adv. May 31 to June 14.	May 31
June 28.	Detroit, Mich.	
	Adv. May 31.	May 31
June 28.	Prescott, Ark.	
	Adv. June 7 and 14.	June 7
June 30.	Detroit, Mich.	
	Adv. June 7 and 14.	June 14
July 5.	Wilmington, Del.	
	Adv. June 14.	June 14
July 10.	Buffalo, N. Y.	
July 12.	Hoopeston, Ill.	June 14
July 16.	Newburyport, Mass.	June 7
		June 14

MISCELLANEOUS

June 18.	Retaining Wall, Winsted, Conn.	June 14
June 18.	Duct Line, New York, N. Y.	June 14
June 20.	Carts, New York, N. Y.	June 14
June 20.	Snow Plows, New York, N. Y.	June 14
June 20.	Lime, Long Island City, N. Y.	June 14
June 22.	Boilers, Newark, N. Y.	June 14
June 23.	River Improvements, Olive, Cal.	June 14
June 25.	Harbor Improvements — Newport, Ore.	June 7

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

WATER-WORKS

Proposed Work

N. Y., Jamestown—City receives bids in July improving water-works system; plans include 30-ft. diameter well and pump, 50- and 30-ft. deep. L. P. Hopgood, supt. C. C. Hopkins, 349 Cutler Bldg., Rochester, engr.

Water-Works (Continued)

N. Y., Johnstown—(Official)—City receives bids in July building storage reservoir. About $110,000. W. E. Natanson, city engr. J. P. Wells, Cutler Bldg., Rochester, cons. engr.

N. J., Asbury Park—City plans to install 8- and 10-in. water mains in 7 streets. R. Bartley, Jr., supt.

N. J., Dover—Bd. Aldermen plan to improve gravity water system. About $17,582. C. P. Cook, supt.

N. J., Perth Amboy—Owing to lowering of water mains under Raritan River, as ordered by War Dept., bd. water comrs. plans to establish waterworks on north side of river. About $2,000,000. T. Grieve, supt.

N. J., Summit—Bd. Pub. Utility Comrs. granted permission to Commonwealth Water Co. to issue $55,000 bonds and $20,000 capital stock for extensions.

Pa., Bethlehem—Council granted permission to Bethlehem Steel Co. to construct new water lines to serve 1000 houses to be erected by company in eastern section. Company will bear cost of work.

Pa., Downington—(Official) — Boro retained H. W. Hatton, sanitary and hydraulic engr., 708-9 Equitable Bldg., Wilmington, Del., to prepare plans 60,000,000 gal. reservoir and dam and filtration plant for water supply, including rapid sand, mechanical filter. About $75,000.

Del., Wilmington—Council will sell $300,000 bonds to install water system. E. M. Hoopes, Jr., supt.

W. Va., Paden City—City election about June 15 to vote on $40,000 bonds to improve water-works. H. L. Maddock, 404 Newark Trust Bldg., Newark, Ohio, engr.

Ga., Atlanta—Water-Works Dept. plans water system to furnish water to cantonment near Ben Hill, daily capacity 1,500,000 gal. About $50,000 or $60,000. Z. Smith, mgr.

Ga., Macon—City plans to extend water mains from East Macon to cantonments at Holley Bluff. About $60,000 to $75,000. C. Y. Williamson, chn.

Ga., Savannah—City plans $500,000 bond issue to rebuild waterworks. G. Figg, supt.

O., Maple Heights—(Worthington P. O.)—Village voted $50,000 bonds to install waterworks.

O., Rocky River—Town will sell $17,130 bonds, July 3, to install water mains in Columbia, Lakeview and Bates Sts. F. Mitchell, clk.

O., Piqua—City retained Hazen, Whipple & Fuller, engrs., 30 East 42nd St., New York City, to prepare plans complete water purification plant and all auxiliary structures. Noted Apr. 19.

O., St. Bernard—County soon receives bids 1-story, 60 x 100-ft. water softening plant and filtration system. About $90,000. E. Kay, 1322 McMillan Ave., Cincinnati, engr.

Wis., Shawano—City plans to improve water and light plant and will install 250-hp. Corliss engine. P. Capraro, supt.

Ia., Aplington—(Official)—City will sell $18,000 bonds to install waterworks. H. Busse, clk.

Ia., Conrad—City sold $15,000 bonds for water-works and sewerage systems.

Ia., Knoxville—City plans to install waterworks system. About $20,000. C. W. Rowland, Des Moines, engr.

Ia., Northwood—City plans to extend water mains in several streets. L. J. Thompson, clk.

Ia., Riceville—City sold $60,000 bonds to improve waterworks. H. Moeller, clk.

Ia., Stuart—See "Sewers."

Minn., Akely—City sold $10,000 bonds for waterworks system.

Kan., Junction City—City plans to build 1,000,000 gal. capacity reservoir. J. H. Rathert, supt.

Kan., La Crosse—City sold $30,000 bonds to install waterworks. W. B. Rollins & Co., engrs., 209 Railway Exchange Bldg., Kansas City, Mo., preparing plans.

Kan., Topeka—City preparing plans improving water system. About $25,000. J. Shaw, supt.

Neb., Beaver City—City preparing plans improving water-works system. About $10,000.

Wyo., Basin—City Council considering plans extending water and electric-light systems. G. B. Morrison, supt.

Wyo., Burns—City sold $17,000 bonds to install water and light plant.

Wyo., Casper—See "Buildings."

Mont., Eureka—City Council plans to extend waterworks.

Tex., Abilene—City voted to purchase water plant on Elm Creek and to build 5,000,000,000 gal. reservoir.

Tex., Ft. Worth—City plans to spend $85,000 for improving waterworks, including sedimentation tanks, aeration plant and increasing capacity of filtration system to 15,000,000 gal. C. F. Crabtree, supt.

Okla., Ada—City voted $100,000 bonds to improve waterworks. Benham Engr. Co., Colcord Bldg., Oklahoma, engrs. Noted May 3.

Okla., Rush Springs—City voted $30,000 bonds to construct waterworks. Macintosh-Walton Co., 1023-24 State Natl. Bank Bldg., Oklahoma, engrs. Noted May 24.

Colo., Boulder—City plans to install chlorination plant to purify water supply, average daily consumption, 3,600,000 gal.

Colo., Colorado Springs—Brookside Water Co. soon receives bids for 500,000-gal. reservoir.

Colo., Ft. Collins—See "Reinforced Concrete."

Colo., Greeley—City council plans to purchase 1 mi. of 20-in. steel water pipe. M. Seaman, supt.

Colo., Rosemont—Myron Strattom Home having plans prepared for reservoir. About $100,000.

Colo., Sterling—Council plans pumping plant in southern section of city. G. C. Forgales, supt.

Idaho, Newadle—(Teton P. O.)—Town plans to install water system.

Utah, Salt Lake City—See "Sewers."

Ariz., Yuma—(Official)—City plans to hold election in fall to vote on bonds to install water system and extend light and gas plant. Contracts totaling $100,000 will then be awarded. F. E. Trask, Union Oil Bldg., Los Angeles, engr. Noted May 24.

Wash., Bremerton—Water Dept. plans new pipe lines and reservoir with 10,000,000-gal. capacity.

Wash., Seattle—Bd. Pub. Wks. approved plans water mains in Shilshole Ave. et al. About $36,973. L. B. Youngs, supt.

Alta., Edmonton—City having plans prepared by A. Haddow, engr. for extension to waterworks. About $47,000.

B. C., Kaslo—Dominion Government plans to install gravity water system at Balfour Sanitorium. About $17,000.

Bids Desired

N. Y., Brooklyn—Until June 18 by W. Williams, comrs. water supply, gas and electricity, Municipal Bldg., New York City, hauling and laying water mains and appurtenances in Barrey, Chester, Crescent, Lombardy, East 15th, Bay 46th, Bay 47th, 58th, 59th, 61th, 67th and 77th Sts. and Lott, Marine, Porter, 7th and 16th Aves.

N. Y., New York—(Official)—Until July 17 by Bd. Water Supply, Municipal Bldg., for Shandaken tunnel, to be part of Schoharie watershed development for New York City water supply; advertised in this issue.

N. Y., New York—Until June 21 by W. Williams, comr. water-supply, gas and electricity, furnishing, delivering, unloading, stacking and storing c.-i. pipe, special and valve-box castings, valves and double-nozzle fire hydrants.

O., Chardon—(Official)—Until July 3 by R. S. Parks, village clk., installing waterworks. Noted June 7.

Minn., Duluth—(Official)—Until July 10 by D. A. Reed, mgr. water and light dept., installing 20,000,000 gal. centrifugal pump unit (electrically driven), including pump, motor, transformers, control, etc. About $42,000. E. W. Kely, engr. Noted May 10.

N. D., Hazen—Until July 2 by Village for installing water system. G. Freer, clk.

Mont., Livingston—(Official)—Until June 26 by city clk. for water works plant and system; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Brooklyn—Dept. Water Supply, Gas and Electricity, Municipal Bldg., New York City, received low bid, furnishing, delivering and laying water mains and appurtenances in Atlantic, Highland, Manhattan, Neptune, Poplar, Seagate and Surf Aves., in grounds of Seagate Assn., from Murphy Bros., 2624 Cropsey Ave., Brooklyn, $24,901. Noted May 31.

★**N. Y., Cortland**—(Official)—Bd. Water Comrs. let contract pumping station to L. R. Hopkins, Cortland, $16,055. Noted Apr. 26.

★**N. Y., New York**—(Official)—Bd. Water Supply, Municipal Bldg., New York City, let contract furnishing and delivering cement for use at Woodstock and Olive dikes of Ashokan reservoir to be delivered to West Hurley station of Ulster and Delaware R.R., to Alsens American Portland Cement Works, 45 Bway., $2.30 per bbl. Noted June 7.

★**Md., Mt. Rainier**—See "Sewers."

★**O., Bradford**—City let contract improving water-works to H. E. Miller, 1653 North High St., Columbus, $14,445. Noted June 7.

★**Minn., Wabash**—See "Sewers."

★**Kan., McPherson**—City let contract improving water-works and electric-light plant to Merkle-Hines Machine Co., 508 Interstate Bldg., Kansas City, Mo., $20,000.

★**S. D., Milbank**—(Official)—City let contract installing filter equipment for mechanical gravity filter plant of 500,000-gal., 300 G.P.M. motor driven centrifugal pumps, to W. Danforth, 411 Hackney Bldg., St. Paul, filter equipment, $4750; pumps, $1180. Noted May 24.

★**Ark., Malvern**—City let contract water and sewerage systems to J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, $113,350.

SEWERS

Proposed Work

Mass., Fall River—City having plans prepared by H. R. Barrows, engr., 6 Beacon St., Boston, for improving sewerage system.

N. Y., Larchmont—(Official)—Bd. Trustees retained J. H. Gregory, engr., 170 Bway., New York City, to prepare plans sewage pumping station and sewage force main.

N. J., Matawan—Boro. council plans to purchase site for sewage disposal plant. About $80,000. G. A. Johnson, 150 Nassau St., New York City, cons. engr.

N. J., Newark—Bd. Works plans Sewerage system in Waverly Dist., including Van Duyne St., Evergreen and Frelinghuysen Aves., involving 36-, 30-, 24-, 18- and 12-in. pipe. M. R. Sherrard, city engr.

Pa., Erie—City approved plans building intercepting sewer and sewerage treatment system. About $810,000. B. E. Briggs, city engr.

Pa., Wilkes-Barre—City asked S. Dixon, state comr. health, for permission to construct sewage disposal plant on Susquehanna River at outlet of Solomon's Creek. B. K. Finch, city engr.

W. Va., Weston—State Legislature appropriated $45,000 for sewage disposal plant at state asylum.

Miss., Lambert—City voted bonds to install sewerage system.

O., Akron—See "Streets and Roads."

O., Canton—City plans to install sanitary sewer portion 17th St., N.E. W. E. Sarver, city engr.

O., Cleveland—City plans sewers in Clarkstone, West 30th and West 110th Sts. R. Hoffman, city engr.

O., Hamilton—See "Streets and Roads."

O., Marion—City plans laying sanitary sewers in portion Spencer St. J. E. Petrie, city engr.

O., Marion—City plans storm water sewer in Mound St. from point south of Sugar St. H. H. Noyes, city engr.

Ind., Fortville—(Official)—Town having plans prepared installing 1200-ft. 15-in. storm sewers and 2588 ft. curb and gutter. C. Boone, Greenfield, engr.

Ind., Indianapolis—B. J. T. Jeup, city engr., submitted plan to bd. park comrs. for intercepting sewer along Pleasant Run, to eliminate objectionable waste now flowing into stream causing unsanitary conditions along parkways and in parks.

Mich., Manistique — Council approved plans of city engineer estimating cost installing storm sewer in MacGregor Ave. at $19,820.

Mich., Trenton—Village plans to install trunk sewer in Front St.

Ill., Harvey—City had plans prepared by A. W. Hersey, engr., installing 12 to 15-in. vitr. tile sewers portion Marshfield Ave. J. Alton, clk.

Sewers (Continued)

Wis., Appleton—City having plans prepared sanitary sewer in portion Durkee St. M. Williams, city clk.

Ia., Arthur—Council plans to install 9000 ft. sanitary sewer pipe and septic tank.

Ia., Conrad—See "Water-Works."

Ia., Muscatine—City soon receives bids installing sewer, Brook St. C. H. Young, city engr.

Ia., Stuart—City plans to spend $75,000 for improving sewers, water mains, reservoir and city hall.

Minn., Caledonia—Village soon lets contract installing sewerage system. D. C. Merlo, clk.

Minn., Lake Crystal—Village sold $30,000 bonds to install sewers. W. P. Cobb, clk.

Minn., St. Paul—City Council approved plans sewers in Fairview, Summit, Wheeler, MacAlester, Pascal and Cretin Aves. and James and Sidney Sts.

Minn., Spring Valley—City having surveys made by E. W. Goldenstar, engr., Mankato, for sewerage system. About $50,000.

S. D., Mobridge—City engr. preparing plans sewer extensions. Bids will soon be received.

Tex., McKinney—City plans to install sewage disposal plant.

Okla., Rush Springs—City voted $25,000 bonds to install sewers. Mackintosh-Walton Co., 1023-24 State Natl. Bank Bldg., Oklahoma, engrs.

N. M., Lordsburg—City Council plans to install sewerage system.

Utah, Salt Lake City—City election June 26th to vote on $808,500 bonds to improve, extend and enlarge water system; $176,000 bonds to install storm sewers; $100,000 to build bridges; $316,000 to improve streets; $200,000 to improve parks and build bath house. S. Q. Cannon, city engr.

Ore., Woodburn—City submitted plans to state engr., for approval, for improving sewerage system. About $30,000. L. B. Wickersham, city engr.

Cal., Folsom—State Dept. Engineering, Forum Bldg., Sacramento, plans sewage disposal plant at penitentiary. About $11,000. W. F. McClure, state engr.

Bids Desired

Conn., Bridgeport—(Official)—Until July 12 by Paving and Sewer Comn., for building Western Sewage Pumping Station and equipment, Contracts Nos. 1 and 2, advertised in this issue.

N. Y., Long Island City—Until June 20 by M. E. Connolly, boro. pres., constructing sewers and appurtenances in portions of Hancock, 13th, 14th, Chauncey, Howard Packard Sts. and Review Ave., 1st Ward; Prospect, Hayes, Jackson Ave., 50th, 49th, 48th, 47th, 46th, 45th, 44th, 43rd, 42nd, 41st, and Audley Sts., 2nd Ward; Ferris St., St. Anna, Jamaica, Kimball, South Cochran, Van Wyck, Silkworth and Ellsworth Aves., 4th ward; constructing receiving basins and appurtenances on Nelson Ave., Van Buren, Bragaw and Van Pelt Sts., 1st ward.

N. Y., New York—See "Streets and Roads."

N. Y., St. George, S. I.—Until June 19 by C. D. Van Name, boro. pres., constructing temporary sanitary sewer with necessary appurtenances in portion Northcliffe Ave.

N. Y., Scarsdale—(Official)—Until June 20 by Street Comr. for laterals sewers and appurtenances; advertised in this issue.

Pa., Reading—See "Streets and Roads."

O., Ghent—(Official)—Until June 19 by Bd. County Comrs., Akron, for storm water sewer in Ghent. M. Rebel, clk.

Ind., Gary—(Official)—Until June 25 by W. P. Cottingham, city engr., for Sewers Nos. 67 and 68.

Wis., Hillsboro—(Official)—Until June 22 by A. Shebeck, village clk., furnishing and laying 572 ft. 12-in., 1148 ft. 10-in., 11,326 ft. 8-in. and 2407 ft. 6-in., vitrified pipe sewers; also 33 manholes, 9 lampholes, 2 flush tanks and 1 bulkhead. W. G. Kirchoffer, Vroman Bldg., Madison, engr.

Ia., Creston—(Official)—Until June 18 by City for building sewage disposal plant including 300,000-gal. Imhoff tank, dosing chamber, filter beds, etc., also outfall sewer extensions. Former bids rejected. T. S. De Lay, city engr. Noted May 17.

Ia., Davenport—(Official)—Until July 3 by F. U. Friedholdt, clk. bd. pub. wks., storm drain in Kirkwood Blvd., Cedar and Rock Island Sts. Dist. About $80,000. Noted May 10.

Minn., St. Paul—Until June 18 by H. W. Austin, city purch. agent, for storm sewers in Fairview, Wheeler, Summit, Macalester and Pascal Aves.

Kan., Neodesha—Until June 18 by Black & Veatch, engrs., Interstate Bldg., Kansas City, Mo., for storm sewers for city.

N. D., Bismarck—Until June 19 by City for installing storm sewers. C. L. Burton, aud.

Wyo., Casper—Until June 28 by City installing 3300 ft. 60-in., 3300 ft. 48-in., 1600 ft. 36-in., 400 ft. 30-in. storm sewers, also 3700 ft. 15-in., 7000 ft. 12-in. and 15,000 ft. 8-in. sanitary sewers, also manholes, appurtenances, etc. L. S. Worthington, city engr.

Mont., Bozeman—Until June 21 by C. A. Speith, city clk., building storm sewer in Dist. No. 146; sewers in Dist. No. 148.

Ont., York—Until June 18 by F. Barber, twp. engr., sewer on Rushton Rd. and Muriel Ave. and sidewalk on Oakwood Ave.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Milton—Town sewer comrs. received low bids, June 7, laying 3565-ft. pipe sewer from D'Adderio & Booth, Mattapan, $11,586, T. Bruno, 18 Tremont St., Boston, $14,011, Susi & Williams, 306 Hanover St., Boston, $15,452.

N. Y., Brooklyn — (Official) — L. H. Pounds, boro. pres., received low bids, sewers in portions various streets as follows: Ralph Ave., J. F. Cogan Co., 2 Franklin St., $227,529; Kings Highway, Murphy Bros., $25,772; East 14th St., B. Peconi & Son, $11,274. Noted May 31.

N. Y., Rochester—Bd. Contract and Supply received low bids furnishing hydraulic power equipment for Irondequoit sewage disposal plant from O'Connell Electric Co., $25,000; Warder, Clark & Chaplin, $26,486; Wheeler-Green Co., $27,337.

★**Pa., McKeesport**—City let contract installing sewers to F. Crosier and E. Hengstler, $10,811.

★**Pa., Phila.**—(Official)—City let contract installing sewers, Wheatsheaf Lane and Richmond Str., to J. J. McHugh, 1430 South Penn. Sq., $156,000.

★**Pa., Scranton**—City let contract installing 26,960 lin.ft. T. P. pipe sewer, 21st Ward, to M. Stipp, 435 Moir St., $86,000.

★**Md., Mt. Ranier**—(Official)—Town let contract sanitary sewers, water mains, waterworks pumping station, steel tank and tower to H. Stensrod, Marquette, Mich. Noted May 3.

★**Fla., Jacksonville**—(Official)—Trustees let contract sanitary sewers to M. P. Flynn, 11 West 4th St., $55,455. Noted May 17.

★**Tenn., Jackson**—(Official)—Bd. comrs. let contract public sanitary sewer extension to Municipal Constr. Co., Empire Bldg., Atlanta, $32,341.

★**O., Barberton**—(Official)—Bd. Control let contract building sewage treatment plant to A. S. Hecker & Co., Cleveland, $80,000. Noted May 17.

★**O., Cleveland**—Bd. Control let contract installing sewer (Plan C) in St. Clair St., to Amata Constr. Co., 1108 B. & L. E. Bldg., $65,045.

O., Dayton—City received only bid storm sewer on East 3rd St. from R. J. Paul.

★**O., New Matamoras**—(Official)—City let contract sanitary sewers to Green & Getman, New Matamoras.

★**Ind., Anderson**—City let contract sewer in East Lynn St. to Minnick Constr. Co., Newcastle, $15,990.

★**Ind., Valparaiso**—(Official)—City let contract West End sewerage system to G. McGillicuddy, Valparaiso, $24,990. Noted May 10.

Mich., Holly—City received low bids installing sewers from C. S. Bell & Son and J. Prescott & Co.

★**Wis., Sheboygan**—City let contract sewer to J. J. Koepsell Co., Sheboygan.

★**Wis., Whitefish Bay**—(Official)—Village let contract sewers to J. T. Blake, Madison, $2.90 per lin.ft.

★**Ia., Audubon**—City let contract storm sewer to H. J. Petersen, 1119 South 35th Ave., Omaha, $12,400.

★**Minn., Wabash**—City let contract waterworks and sewerage system to E. T. Webster, 437 Beacon Ave., St. Paul, $11,933. Noted May 24.

★**Kan., Leavenworth**—City let contract installing sewers to E. W. Geiger Constr. Co.

★**Neb., Fremont** — City let contract installing sewers in 15th and 19th Sts. to J. W. Andrews, Fremont.

★**Ark., Malvern**—See "Waterworks."

★**Okla., Cordell**—City let contract lateral sewers in Dist. No. 1 to Municipal Excavation Co., 200 East Main St., Oklahoma, $42,200.

Wash., Seattle—Bd. Pub. Wks. received bids sewers in East 54th St. et al., (a) clay pipe, (b) concrete pipe, from Fiorito Bros., Seattle, (a) $44,939, (b) $44,033; James Constr. Co., Seattle, (a) $45,519, (b) $42,946; C. Cristoforo, Seattle, (a) $45,105, (b) $43,809; Superior Constr. Co., Seattle, $46,751, (b) $45,997; Scalzo & Co., Seattle, (a) $47,466, (b) $46,351. Noted Apr. 19.

★**Ore., Huntington**—Council let contract sewers, cement walks and paving to J. A. Hoskins, Huntington, $23,370.

Cal., Los Angeles—City received low bid vitrified sewers in Larchmont and other streets from J. Sutalo, 476 Bell St., $14,393.

★**Cal., Sacramento**—City let contract sewers in several streets to J. W. Terrell.

STRUCTURAL STEEL WORK

Proposed Work

Mass., Lawrence—City having plans prepared by R. H. Davis, engr., 17 Battery Pl., New York City, for 2 bridges over Merrick River.

Connecticut—State Legislature, Hartford, appropriated about $6,000,000 to State Highway Dept. for next 2 years for construction of bridges, roads and elimination of dangerous conditions on trunk line highways.

N. J., Salem—Salem-Penns Grove Traction Co., 704 Stock Exchange Bldg., Phila., having plans prepared for drawbridge. H. C. Perry, Penns Grove, supt.

Pa., Phila.—Pennsylvania R.R. plans to build bridge to connect Petty's Island with New Jersey shore. A. C. Shand, Broad St. Station, ch. engr.

Pa., Watsontown—Northumberland and Union Cos. soon receive bids steel and cement bridge across Susquehanna River between Watsontown and White Deer. About $100,000.

Fla., Palm City—Bd. co. comrs. plan to build bridge over St. Lucie River. Address Co. Clk., West Palm Beach.

O., Barberton—A. Davies, dir., soon receives bids viaduct on East Tuscarawas Ave. to be built by city, Baltimore & Ohio R.R., Cleveland, Akron & Cincinnati Ry., and Akron-Barberton Belt Line R.R. Estimated cost, $250,000, of which railroad companies will pay $66,000. H. Alcorn, city engr.

O., Columbus—City soon receives bids extension to Rich St. bridge to make it conform with proposed width of new channel. About $80,000. H. Maetzel, city engr.

Ill., Elgin—City preparing plans building bridge on Kimball St. About $60,000. M. H. Brightman, city engr.

Ill., Orangeville—County Supt. Highways prepared plans 80-ft. span bridge across Richland Creek.

Ill., Peoria — (East Peoria) — Village comrs. plan to build bridge over Farm Creek. About $10,000.

Wis., Superior—County soon receives bids grading and installing culverts on South Superior and Olive Rd. About $20,000. W. J. Leader, East End, co. aud.

Minn., Ballclub—County preparing plans building bridge over Mississippi River. About $18,000. F. Sherman, Grand Rapids, co. aud.

Minn., Owatonna—State Highway Comn., St. Paul, approved plans building new Bridge St. bridge. J. H. Brahtz, engr.

S. D., Redfield—County preparing plans building several bridges.

S. D., Watertown—Co. Comrs. plan to build 8 bridges. J. C. Johnson, co. aud.

Utah, Salt Lake City—City plans to build bridge over Jordan River at 4th South and 5th South Sts., and surplus canal at Redwood Rd. About $22,500. S. T. Cannon, city engr.

Utah, Salt Lake City—See "Sewers."

Ore., Hood River—Co. comrs. rejected bids building bridge over Hood River, south of Dee. New bids will be received for Howe truss bridge. About $10,000.

Wash., Yale—Co. Comrs. Vancouver, soon receive bids suspension bridge over Lewis River here. About $15,000. B. L. Dorman, co. engr.

Structural Steel Work (Continued)

Cal., Porterville—City engr. preparing plans bridge over Porter Slough on Main St.

Ont., Arranvale—Grand Trunk Ry. having plans prepared steel bridge. H. R. Safford, Montreal, Que., ch. engr.

Ont., Port Dover—Town Council plans swing bridge. R. Walker, chn.

BIDS DESIRED

N. Y., Niagara Falls—Until June 19 by A. W. Binkley, village superv., building 85-ft. standard highway bridge, 18-ft. roadway.

Pa., Pittsburgh—(Official)—Until June 22 by Allegheny and Beaver Cos. extending arch of Inter-county Bridge No. 1, Sewickley Creek, Fair Oaks Station. J. P. Moore, co. controller.

Fla., Molino—Until June 19 by J. G. White, chn. Escambia Co. comrs., Pensacola, steel bridge across Escambia River.

La., Kinder—Until June 28 by G. M. King, Jr., secy., Allen Parish Supervs., for bridges in connection with road construction in Dist No. 2 and St. Elmo Dist.

Tenn., Brownsville—Until June 27 by J. Tipton, chn. com., building 2 steel bridges over Forked Deer River Canal. D. Meriwether, Jackson, engr.

Minn., Marshall—Until June 18 by E. S. Shepard, co. aud., building 7 bridges on State Rds. Nos. 1 and 2.

N. D., Mandan—Until June 26 by L. Nichola, co. aud., building 4 bridges.

Wash., Duval—(Official)—Until June 26 by Bd. Co. Comrs. bridge across Snoqualmie River, Design "A," 180-ft. riveted steel truss, 1125-ft. approach, 20-ft. roadway, about $34,000; Design "B," 180-ft. wooden Howe Truss, 1125-ft. approach, 20-ft. roadway, about $32,000. T. G. McCrory, bridge engr. Noted Apr. 19.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Lynn—County received low bid rebuilding floating bridge on Western Ave. across Glenmere Lake, from D. J. Sheehan Co., 424 Bway., Lynn. About $78,988.

★**O., Dayton**—Co. comrs. let contract building 8 bridges as follows: 5 to E. H. Fauver, 3rd and Detroit Sts., 3 to A. J. Shaffer and H. L. Stine.

★**O., Wilmington**—City let contract 120-ft. bridge over stream between Main and Locust Sts. to Champion Bridge Co., Wilmington.

★**Ind., Laporte**—Co. comrs. let contract building Kumbaugh and Kropel bridges to H. A. Wilholm; substructure Osborn bridge to W. A. Steigely, superstructure to Rochester Bridge Co., Rochester.

★**Ill., Pittsfield**—(Official)—County let contract Weaver Bridge, Pleasant Hill Twp., to Miller & Husband, 302 Workman Bldg., Springfield, $10,675.

★**Minn., Worthington**—County let contract building 5 state bridges to Iowa Bridge Co., 712 Hubbell Bldg., Des Moines.

★**S. D., Parker**—(Official)—County let contract bridges, abutments, and approaches and repairs required for 3 months to Federal Bridge Co., 1122 Equitable Bldg., Des Moines. Noted May 24.

★**Ore., Astoria**—County let contract building 2 bridges over Nehalem River between Jewell and Vesper, to J. H. Tillman, Portland, $19,300.

★**California**—Advisory Bd., c/o State Highway Comn., Sacramento, let contract state highway bridges in Siskiyou County to J. H. May, Napa.

REINFORCED CONCRETE

Proposed Work

Pa., Lancaster—County plans rein.-con. bridges over Conestoga Creek, Manor Twp. and Octoraro Creek, near Holmes Fording.

Pa., Uniontown—County plans double-span rein.-con. bridge over Monongahela R.R. and Brown's Run at Lardin Station on Public Rd. leading from McClellandtown to Masontown. L. V. Phillips, co. solicitor.

Fla., Tampa—See "Railways."

Mich., Detroit—Belle Island Bridge Cons. Bd., composed of M. E. Cooley, F. C. McMath, W. R. Kales, W. E. Riggs, E. Lorch and L. M. Gramp, prepared plans and submitted same to G. H. Fenkell, comr. pub. wks., for new bridge to be constructed of concrete and steel; length bridge proper, 2200 ft., bridge and approaches, 3500 ft., width of roadway, 59 ft., sidewalks, 12 ft., total width, 86 ft., maximum span, 135 ft., number spans 19. Previous estimates stated bridge could be constructed for $2,000,000, but owing to increased cost of material and labor, cost will probably be $4,000,000 to $5,000,000.

Ia., Davenport—City prepared plans building concrete bridge over Milwaukee R.R. on East Locust St. About $12,000. R. E. Sawistowsky, city engr.

Ia., Elkader—(Official)—County rejected bids rein.-con. highway bridge. A. H. Andreae, co. aud. Noted May 17.

Neb., North Platte—City voted $10,000 bonds to build concrete bridge across South Platte River.

Mo., Kansas City—Union Pacific R.R. plans rein.-con. viaduct on James St. on Kansas side to 12th St. in Missouri, extending over Union Pacific tracks in Missouri and over Missouri Pacific tracks in Kansas. About $185,000, of which city will pay $8114. R. L. Huntley, Omaha, Neb., ch. engr. of former R.R. E. A. Hadley, St. Louis, ch. engr. of latter.

Tex., Ft. Worth—G. W. Armstrong, South Hemphill St., and associates, purchased 600-acre site and plan rein.-con. tie and bagging factory. About $150,000.

Colo., Ft. Collins—City plans rein.-con. reservoir 50-ft. high, 150,000 gal. capacity, about $17,000. A 30-in. pipe line will be constructed from dam of present supply to proposed reservoir and 11-hp. Leffel water turbine which will drive Baron Jackson centrifugal pump will be installed to pump water up into reservoir. A. A. Edwards, supt.

Cal., Palo Alto—Bd. educ. had plans prepared by Allison & Allison, archts., Hiberian Bldg., Los Angeles, 1- and 2-story, rein.-con. high school.

Sask., Regina—City preparing plans building rein.-con. bridges over Qu'Appelle River near Fairy Hill, and Arm River near Craik. H. S. Carpenter, minister of highways.

BIDS DESIRED

Pa., Hershey—(Official)—Until June 20 by H. W. Gough, co. controller, Court House, Harrisburg, rebuilding bridge over Swatara Creek rein.-con., 3-span.

W. Va., Belva—Until June 26 by Fayette and Nicolas Cos., Belva, for rein.-con. arch bridge across 20 Mile, between 2 counties, 2 55-ft. clear spans, 16-ft. clear roadway and 4 20-ft. wings; bridge capacity, 20-ton roller.

W. Va., Clarksburg—Until June 29 by County for rein.-con. bridge across Elk Creek, Clark Dist. G. M. Harbert, co. road engr.

W. Va., Hamlin—Until July 2 by A. F. Black, co. clk., building 2 concrete or steel bridges.

Tenn., Union City—Until June 21 Obion River D. D. No. 1 for rein.-con. sluiceway, 73 ft. long, 14 ft. wide and 5 ft. deep over all, 4 or 5 single gate and 1 double gate rein.-con. manholes. Morgan Engr. Co., Goodwin Institute, Memphis, engrs.

Ky., Pikeville—(Official)—Until June 20 by Clk. of Fiscal Court, furnishing all labor and materials and righting concrete pier, including concrete foundations, excavations and cofferdam, cleaning old bridge and resetting properly 2 140-ft. and 1 200-ft. spans on piers. C. D. Snead, bridge engr.

O., Canton—(Official)—Until June 20 by Bd. Co. Comrs. building rein.-con. arch-gorge lash bridge, Bethlehem Twp. W. C. Schick, clk.

Minn., Fergus Falls—Until June 22 by County building rein.-con. bridge. W. Lincoln, co. aud.

N. D., Lisbon—Until June 18 by C. E. Best, co. aud., for concrete abutments and wing walls on bridge.

Wash., Olympia—Until June 25 by State Highway Comn. building rein.-con. arch bridge over Walla Walla River on Inland Empire Highway, Sect. 22, Twp. 7, 100 ft. and 2 60-ft. spans.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Conn., Hartford—State Highway Comn. received low bids building 2 span rein.con. bridge over Branford River, Branford Twp., from R. D. Daly Co., 6 Church St., New Haven, $6510; H. S. Osborn, Redding Ridge, $9000; Acme Engr. Co., 868 Main St., New Haven, $10,015; 3-span rein.-con. bridge over Hammonsett River, Clinton and Madison Twps., from J. G. Holbrock, Westbrook, $19,197; F. Arrigoni & Bro., $23,541; Acme Eng. Co., 868 Main St., New Haven, $30,010.

★**N. J., Trenton Junction**—Philadelphia & Reading R.R. let contract 2-span rein.-con. plate girder bridge to McClintic-Marshall Co., Morris Bldg., Phila.

★**Wash., D. C.**—Columbia Warehouse Development Co. let contract concrete storehouse, Pierce and M Sts., to E. H. Meyer, Colorado Bldg., $250,000.

★**Pa., Delblers**—Philadelphia & Reading R.R. let contract 2 rein.-con. and steel double-track bridges to Allentown Constr. Co., 11 North 11th St., Allentown.

★**Pa., Phila.**—Lit Bros. let contract rein.-con. addition to store, 7th and Market Sts., to Keystone State Constr. Co., Pennsylvania Bldg., $1,000,000.

★**Pa., Phila.**—(Official)—American Insulation Co., 67 North 2nd St., let contract through Peuckert & Wunder, archts., for rein.-con. plant, Roberts Ave., Stokley St. and Pennsylvania R.R. to W. Steele & Sons Co., 1600 Arch St.

★**Va., Norfolk**—Virginia Railway Co. let contract concrete and steel work in connection with improvements to provide for additional dumping facilities for coal pier to Virginia Bridge & Iron Co., Norfolk. J. P. Pettyjohn & Co., Lynchburg, and Wellman-Seaver-Morgan Co. About $673,000.

★**Ind., Mishawaka**—(Official)—County let contract rein.-con. bridge on Mishawaka Ave., to Kuert Contr. Co., 608 Majestic Bldg., Indianapolis, $83,975. Noted May 10.

★**Ind., Shelbyville**—County let contract bridge in Moral Twp. to Natl. Concrete Co., 804 Traction Terminal, Indianapolis, $11,000.

★**Kan., Weir**—City let contract concrete bridge in 1st St. to J. Craddock.

★**Wash., Montesano**—Co. Comrs. let contract rein.-con. bridge over Humptulips River to Croxson-Kirk Co., Securities Bldg., Seattle, $10,000.

★**Ore., Eugene**—(Official)—Co. Comrs. let contracts rein.-con. bridge work as follows: Gallagher Bridge to W. O. Hickart; Stafford Bridge to L. N. Rooney; Shortridge Bridge and Paschilki Bridge to G. W. Breiding; culvert to W. L. Hubbell. About $10,269. Noted May 24.

★**California**—State Highway Comn., Sacramento, let contract building rein.-con. bridge over Little Castle, Greenhorn and Yreka Creeks, Siskiyou Co., to J. H. May, Napa. Noted May 4.

★**Que., Adamsville**—Muncipal Council let steel contract for $10,900 concrete and steel bridge to Dominion Bridge Co., Lachine.

★**Que., Montreal**—American Can Co. let contract 5-story, 100 x 300-ft. rein.-con. factory to Norcross Bros., Worcester, Mass.

STREETS AND ROADS

Proposed Work

R. I., Providence—Water Supply Bd., Providence, rejected bids building 3.4-mi. highway. F. E. Winsor, Providence, ch. engr. Noted May 4.

Connecticut—See "Structural Steel."

N. J., Camden—City plans to pave and elevate portion State St. About $30,000. L. E. Farnham, city engr.

N. J., East Orange—City plans to pave portion South Clinton St., bituminous concrete. W. D. Willegerod, city engr.

N. J., Mt. Holly—Bd. Freeholders receiving bids in July building concrete road from Pemberton to Lewiston.

N. J., New Brunswick—Bd. Freeholders sold $461,000 bonds to pave streets and roads; plans include paving Ferry St., South River, asphalt. A. B. Fox, 137 Smith St., Perth Amboy, co. engr. Noted Apr. 19.

N. J., Newton—Bd. Freeholders plan to purchase 30,000-gal. tarvia for road surfacing and 3000-gal. glutin for Newton-Stanhope Rd., also to build new road from Sparta Ave. to Drake's Pond.

N. J., Newton—Bd. Freeholders appropriated $88,000 to build roads in county; to include Sparta-Ogdensburg Rd. and Ross's Corner-Sussex Rd. H. Snook, co. engr. Noted Apr. 19.

N. J., Roosevelt—City soon lets contract paving Fitch and Randolph Sts., also Central Ave., concrete.

Del., New Castle—City plans election to vote on $25,000 bonds to build roads.

Md., Baltimore—City Paving Com., 214 East Lexington Ave., plans to pave portion Saunders and Covington Sts. R. M. Cooksey, city engr.

Streets and Roads (Continued)

Md., Cumberland—City soon receives bids repaving streets, brick on concrete base. R. Rizer, city engr.

Va., Staunton—City plans to construct granolithic sidewalks on portion Frederick St.; also pave Middlebrook Rd. within city limits.

W. Va., Martinsburg—City receives bids about Sept. 1 paving streets, brick, asphalt or macadam, concrete curb and gutter. About $115,000. E. D. Bromley, city engr. Noted May 17.

W. Va., Wellsburg—County rejected bids building 9.2-mi. road, brick, bituminous or asphaltic concrete. C. A. Eichelberger, co. engr. Noted May 4.

Fla., Key West—Bd. co. comrs. plans to build 60-mi. hard surfaced roads in Key Largo, Pine Key, Stock Island and Cape Sabell. About $150,000.

Fla., Quincy—City having plans prepared by J. B. McCrary Co., 3rd Natl. Bank Bldg., engrs., Atlanta, paving 29,300 sq.yd. streets. About $50,000 to $60,000.

Miss., Carthage—County plans to build 10-mi. gravel road.

Miss., Cleveland—County plans to build 33 mi. graveled roads. G. H. Stephen, comr.

Miss., Indianola—County voted $100,000 bonds to improve roads in Beat No. 5.

Miss., Jackson—Bd. Supervs. soon lets contract grading and graveling roads in county. W. W. Downing, chancery clk.

Ky., Louisville—Council plans to pave portions A St., asphalt, vitr. block gutter and concrete curbs; Central Ave., vitr. block. D. R. Lyman, city engr.

O., Akron—City plans improving portion East Ave. by constructing sidewalks, sewers and sewer laterals. J. A. Gehres, city engr.

O., Alliance—City plans to grade and build stone or concrete sidewalks on portion Pike St. W. Shectler, city engr.

O., Bryan—County sold $333,400 bonds to improve roads in various townships. G. C. Beucler, aud. Noted May 4.

O., Cincinnati—City plans to pave and improve Eastern and Freeman Sts. F. Krug, city engr.

O., Cleveland—Co. comrs. plan to improve 1½-mi. Harvard Rd. About $47,433.

O., Cleveland—County to sell $35,725 bonds June 27 to improve Windfall Rd. E. G. Krause, clk.

O., Cleveland—City plans to pave and improve portion West 18th St. R. Hoffman, city engr.

O., Cleveland—City plans to pave portions Nordica and East 86th Sts., also repave portion Archwood Ave. R. Hoffman, city engr.

O., Columbus—Council authorized $75,000 bond issue to widen High St. H. Maetzel, city engr.

O., Coschocton—City plans to pave portions Orange, South 6th, McCain, Sycamore and South 3rd Sts., also Hamilton Ave. A. Fisher, city engr.

O., Elyria—City plans to pave portion West and Park Aves., Grant, Ohio and Glenwood Sts. C. M. Theobald, city engr.

O., Fremont—City to sell $19,445 bonds, June 26 to improve portion North Front St. C. A. Hochenedel, city engr.

O., Hamilton—City plans to pave, curb, gutter and install sewers in portion Grand Blvd. F. E. Weaver, city engr.

O., Toledo—Council plans to pave and improve St. John, Stickney, Plymouth, Huron, Maunee, Adams and Dorr Sts. H. McKechnie, city engr.

O., Warren—County to sell $113,250 bonds, July 2, to improve roads. W. Fahr, clk.

Ind., Fortville—See "Sewers."

Ill., Rock Island—City plans to pave 11th and 18th Sts. and 22nd Ave. About $13,023. W. Treichler, city engr.

Ill., Waukegan—Council plans to pave portion North Ave. About $33,637. M. J. Douthitt, city engr.

Ia., Mason City—City preparing plans paving road from Mason City to Clear Lake. About $65,000. B. C. Way, pres. chamber of commerce, interested.

Ia., Mount Ayr—State and U. S. Government to appropriate $40,000 to build roads in county. E. E. Cornwall, co. aud.

Minn., Aitkin—County plans to gravel and improve State Rural Highway No. 10B. Federal government to appropriate $20,000 toward cost.

Minn., Duluth—City plans to pave portion 11th Ave., E. cost, $26,700; 54th Ave., W, $13,258; opening Farrell Rd. extension, turnpiking portion 11th St., $19,062; portion Ramsey St., $8820; improving portion Cook St. and turnpiking portion Faribault St. L. Ayers, city engr.

Minn., St. Paul—Council approved plans paving Arkwright St., Brainerd and Igelhart Aves. O. Claussen, city engr.

Kan., Gypsum—Town plans to pave Main St.

Kan., Hutchinson—Co. comrs. soon let contract paving Arkansas River bridge. W. B. Harris, co. engr.

Kan., Hutchinson—City plans paving, grading and guttering all Crescent Park addition, portion 17th, 19th and 20th Sts., curbing and guttering portion Plum, 8th and Poplar Sts. G. L. McLane, city engr.

Neb., Grand Island—City sold $50,000 bonds to pave streets.

Neb., Kearney—City comrs. created new paving district and plans to pave 18 blocks. E. H. Morely, city engr.

Wyo., Casper—Town having plans prepared paving various streets.

Mo., Charleston—County plans election to vote on $500,000 bonds to build roads.

Mo., Eminence—County election June 30 to vote on $150,000 bonds to build roads.

Mo., Springfield—City plans to pave portion Main St., brick. O. D. Christman, city engr.

Ark., Jonesboro—State Highway Dept., Little Rock., making surveys building 30 mi. road in county from Jonesboro to Poinsett Co. line.

Tex., Athens—County voted $20,000 bonds to build roads. Rd. Dist. No. 8.

Tex., Corsicana—State Attorney General's Dept., Austin, approved $16,000 bond issue to build roads in county, Dist. No. 7.

Tex., Newton—(Official)—County defeated $100,000 bonds to build roads, Precinct No. 1, including Deweyville. Noted May 17.

Tex., Wichita Falls — County voted $750,000 bonds to build roads.

Okla., Norman—County defeated $30,000 bonds to build roads in Norman Twp., $18,000 for Little River Twp. Noted Apr. 12.

Utah, Bingham—Council plans to pave Main St., bitulithic.

Utah, Salt Lake City—See "Sewers."

Wash., Goldendale—Council plans to grade, pave, etc., on portions D St. About $15,000. D. Cumming, clk.

Wash., Mt. Vernon—Co. Comrs. plan to spend $56,000 to improve portion Pacific Highway. W. E. Costello, co. engr.

Wash., Port Angeles—City rejected bids paving 2nd and 3rd Sts. New bids. J. L. Beam, clk.

Wash., Seattle—A. H. Dimock, city engr., submitted plans to Council estimating cost paving Howard Ave., N., et. al. at $28,000.

Wash., Spokane—Co. Comrs. plan to pave 2½-mi. road between Newport Highway and Green Bluff. About $20,000. A. R. Scott, co. engr.

Ore., Portland—Council approved plans of P. H. Dater, city engr., installing sewers portion East 69th St.

Oregon—(Official)—State voted $6,000,000 bonds to build and improve roads in counties. Noted May 24.

N. S., Sydney—Council plans to rebuild Charlotte St. R. McKinnon, acting city engr.

Ont., St. Catherines—Council plans to pave Ontario St. W. P. Near, city engr.

BIDS DESIRED

N. Y., Brooklyn—Until June 20th by L. H. Pounds, boro. pres., for regulating, grading, curbing and laying sidewalks on portion East 40th St. and 20th Ave., regulating and paving with permanent asphalt pavement, 6-in. concrete foundation, portions 40th St., Ave. I, 15th and 20th Aves., also furnishing and delivering 60,000 asphalt block, all of which shall have a depth of 2½ in.

N. Y., Long Island City—Until June 20th by M. E. Connolly, boro. pres., regulating, grading, curbing and laying sidewalks, etc., where necessary, portions Purves, McPherson and 40th Sts., 12th, Wyckoff, Kingsland, Fairview and Van Cortland Aves.

N. Y., New York—Until June 15 by M. M. Marks, boro pres., regulating and repaving with sheet asphalt portions Pine, MacDougal, 44th, 48th, 57th and Monroe Sts.

N. Y., New York—Until June 21 by D. Mathewson, boro. pres., for regulating, grading, setting curb, laying sidewalks and crosswalks, building inlets, receiving basins, drains, culverts, approaches and guard rails where necessary in portions East 178th St. and Greystone Ave., paving with bituminous concrete on cement concrete foundation, portion Van Nest Ave., repaving with sheet asphalt on concrete foundation portion Union Ave., installing sewers and appurtenances portion Van Cortland Park S. and Harlem River Terrace, Bronx Boro.

N. J., Newark—Until June 21 by Bd. Pub. Wks. paving 9800 sq.yd. Mulberry St., granite block; 12,000 sq.yd. Meeker and Lehigh Aves., asphalt; 2100 sq.yd. Delevan Pl. and Comes Alley, brick. M. R. Sherrard, city engr.

N. J., Rahway—(Official)—Until June 26 by Common Council, setting and resetting curb on both sides of Westfield Rd. in concrete from St. George's Ave. to Madison Ave.; advertised in this issue.

N. J., West Orange—Until June 19 by Street Com. for laying concrete or flagwalks during year. G. W. Foster, town clk.

Pa., Lebanon—(Official)—Until June 21 by D. M. Sharp, city clk., paving various streets; advertised in this issue.

Pa., Reading—(Official)—Until June 20 by city clk. paving and constructing trunk line sewer, under Contracts Nos. 1, 2 and 3; advertised in this issue.

Md., Frederick—Until July 2 by Co. Comrs. building section Lewiston-Creagerstown Rd. About 5 mi. H. L. Gaver, clk.

W. Va., Adamston—Until June 30 by R. R. Powell, city recdr., paving portion Pike St.

Ga., Griffin—(Official)—Until June 21 by Mayor and Council, grading, curbing, draining and paving certain streets; advertised in this issue.

La., Crowley—Until June 26 by Bd. Supervs. of Acadaia Parish, building 70 mi. metal surfaced roads.

La., Oberlin—Until June 28th by Bd. Supervs., Rd. Dist. No. 2, building roads, including dredging, grading, grubbing, clearing, draining, bridging, etc., as follows: Div. A, 120 stations, Kinder to Calcasieu River; B, 271.62 stations, Kinder to Lauderdale; C, 210 stations, Kinder to Jefferson Davis Parish line; D, 309.73 stations, Kinder to Oberlin Ward line; F, 501.8 stations, Kinder to Indian Village; also Rd. No. 1, 182.86 stations; Rd. No. 2, 210 stations; Rd. No. 3, 154.64 stations, St. Elmo Dist., G. M. King, secy. W. L. Stevens, 312 Whitney-Central Bank Bldg., New Orleans, engr. Noted Apr. 5.

O., Cleveland—Until June 26 by City paving Bulkley Blvd. R. Hoffman, city engr.

O., Cleveland—Until June 26 by City paving portions St. Clair Ave. N. E., and Madison Ave. N. W., also East 55th and West 26th Sts. R. Hoffman, city engr. Noted May 17.

Indiana—By Co. Comrs. for constructing roads as follows:

June 21: Crowns Point, gravel roads, Cedar Creek, Center, Winfield and Eagle Twps. E. Simons, aud.

June 28: Indianapolis, road, Warren Twp. L. K. Fesler, aud.

July 2: Brazil, stone and gravel road on line Posey and Perry Twps. W. O. Graeser, aud.

Williamsport, 2 gravel roads, Prairie Twp., 13,270.5 and 5094 ft. D. H. Moffitt, aud.

Nashville, gravel road, Johnston Twp., stone, gravel and concrete road, Brown Twp. O. Morrison, aud.

July 3: Rochester, road, Rochester Twp. E. A. Smith, aud.

Bloomfield; gravel roads, Stockton and Fairfax Twps. G. E. Kidd, aud.

Salem; 8400 and 8365-ft. road Posey Twp. E. E. Batt, aud.

Albion; brick road, Perry Twp. G. A. Young, aud.

July 14; Rochester; gravel road on line Fulton and Marshall Cos. A. Smith, aud.

Mo., St. Louis—Until June 23 by Bd. Pub. Serv. improving portions Partridge, Arsenal, 15th, Fern and Hydraulic Sts., also improving several alleys. E. R. Kinsey, pres.

Cal., Manhattan—Until June 20 by City for improving 21st, 23rd, Railroad, Grand View and Blanche Sts., also 15 alleys, in-

Streets and Roads (Continued)

volving 139,000-sq.ft. concrete paving, 108,332-cu.yd. excavation, 15,232 lin.ft. redwood header, etc. M. M. Murray, city engr.

Cal., Upland—Until June 25 by city, improving 14 blocks Mountain Ave., plans include 4-in. concrete pavement, ½-in. liquid asphalt and screenings surface and stone curbs. C. P. Fuller, city clk.

Ont., York—See "Sewers."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Connecticut — State Highway Comn., Hartford, received low bids building roads, Thomaston Twp. from Mascetti & Holley, 561 South Main St., Torrington, $12,647; H. S. Osborn, Redding Rodge, $14,777; Barbara & D'Aurio, 90 Franklin St., Waterbury, $14,950; Old Saybrook Twp., Donahue Bros., 127 Grand St., Middletown, $11,654; F. Arrigoni & Bros., 605 Main St., Middletown, $17,672; Acme Engr. Co., Hartford, $18,027; Naugatuck Boro., H. S. Osborn, Redding Ridge, $10,463. Noted May 24.

N. Y., Long Island City—(Official)—M. E. Connolly, boro. pres., received low bids regulating, grading, paving and laying sidewalks where necessary in portion (a) Review Ave., (b) 6th Ave., (c) Crescent St., from Queen Plaza Contr. Co., Queens Plaza Court Bldg., Brooklyn, (a) $33,406, (c) $28,415; E. W. Fitzpatrick, 128 3rd Ave., Brooklyn, (a) $36,100, (c) $28,633; Hastings Pav't Co., 25 Broad St., New York City, (b) $17,829. Noted May 24.

★**N. Y., New York**—(Official)—D. Mathewson, boro. pres., let contract completing abandoned contract for improving East 149th St. to J. McAvoy; regulating and grading 203rd St., to Dimenna & Delbalso, 2336 Cambreling Ave.; 156th St., Bathgate and Tinton Aves. to Union Paving Co.; Valentine Ave. to Dabney Asphalt Co., Inc., 52 Vanderbilt Ave. Noted May 24.

★**N. J., Jersey City**—Blvd. Comrs. let contract paving 2 sections Hudson Blvd. to Cilnton Contr. Co., 306 Charles St., West Hoboken, $147,681. Noted May 4.

N. J., Lakewood—(Official)—G. H. Hurlburt, twp. clk., received low bids paving portions Lexington, 4th, East 4th and Clover Sts. from J. F. Burke Co., 718 Monroe Ave., Plainfield, $49,050. C. H. Winans Co., 207 Broad St., Elizabeth, $52,560. E. A. Corson, Ocean City, $53,063. Noted May 17.

★**N. J., Newark**—Bd. Pub. Wks. let contract paving Abbotsford Ave., bitulithic, Moen Pl., asphalt, to Northern Constr. Co., 665 Broad St., $8665 and $3430 respectively; Oriental Terrace and Oriental Pl., brick to A. J. Milmoe, 83 Littleton Ave., $6517 and $1767 respectively.

N. J., Perth Amboy—Bd. Aldermen received low bids paving Florida Grove Rd. warrenite on concrete base, from Liddle & Pfeiffer, 137 New Brunswick Ave., $20,708; Graham &McKeon, 264 Smith St., $21,682; T. F. Dunigan, 35 Green St., Woodbridge, $21,899.

★**N. J., Roosevelt**—Boro let contract paving portion E St. to M. Hermann, Roosevelt.

★**N. J., Trenton**—City let contract paving portion West State St. to C. A. Reid & Co., 623 Monmouth St., $21,000.

★**N. J., Westfield**—Town let contract improving various streets to Weldon Contr. Co., Rahway. Noted May 17.

★**Pa., Grove City**—(Official)—L. L. McKay, boro. secy., let contract paving, curbing and grading portions Blaine and 2nd Sts. to J. B. Weaver, Grove City, $13,134. Noted May 17.

★**Va., Richmond**—City let contract paving several streets, asphaltic concrete, to Central Constr. Co., Colorado Springs, $1.88 sq.yd.

★**N. C., Asheville**—Co. Comrs let contract building 9¼-mi. Hendersonville Rd. to Clyde Constr. Co., Asheville. About $175,000.

S. C., Charleston—(Official) — City received low bid paving 20,000 sq.yd. sheet asphalt and 1000 sq.yd. creosoted wood block, from Lamson Constr. Co., Essex Bldg., Norfolk, as follows: grading, 15c. per sq.yd., 4-in. concrete base, 85c., 5-in. concrete base, $1.00, 6-in. concrete base, $1.15, 1¼-in. binder, 30c., resurfacing, 70c. Noted May 17.

★**Miss., Clarksdale**—City let contract 22,000 sq.yd. asphaltic concrete pavement to Memphis Asphalt & Paving Co., Falls Bldg., Memphis; about $75,000 available.

★**Tenn., Columbia**—City let contract paving $50,000 sq.yd. asphaltic concrete, to Thompson & Graham. About $75,000 available.

Ky., Owensboro—(Official)—City received low bids paving streets, bituminous, from Andrews Asphalt Paving Co., Maple Ave. near East Ave., Hamilton, $46,291; Municipal Contr. Supply Co., Gary, Ind., $46,324; Southern Bitulithic Co., 601 Ind. Life Bldg., Nashville, Tenn., $53,977.

★**O., Athens**—County let contract surfacing with tar 2-mi. Athens-Nelsonville Rd., to Barrett Co., Illinois Bldg., Cleveland.

★**O., Celina**—County let contract grading, macadamizing, building culverts, etc. on roads as follows: Christ Weitzel Rd., Gibson Twp. to G. F. Spar, Burkettsville; Albers Rd., Union Twp., to J. H. Gels, St. Henry; Baltzell Rd., Union Twp., to Putman & Putman, Ohio City; Trissle Rd., Liberty Twp., to A. Kindler, St. Henry.

★**O., Cleveland**—Co. comrs. let contract paving in Brookpark, Brooklyn and Parma Twps. to McHugh Bros. Constr. Co., Springfield, $57,000.

★**O., Cleveland**—City let contract paving portion Hilgret St. to Cleveland Trinidad Paving Co., The Arcade, $22,534; Bertha and West 99th Sts. to Roehl Bros., West 25th and Lorain Sts., $34,570; East 110th St. to Enterprise Paving & Constr. Co., 8436 Bway, $4682.

★**O., Cleveland**—Co. Comrs. let contract paving Brook Park Rd., Brooklyn and Palmer Twps., to McHugh Bros. Constr. Co., Springfield, $57,000.

★**O., Cleveland**—(Official)—City let contract improving Forest Hill Pkway. to G. E. Whitehouse, 6402 Beaver St., $12,138. Noted May 17.

★**O., Defiance**—Co. comrs. let contract improving Auburn-Defiance Rd. to F. Newill, $75,460. Noted May 31.

★**O., Mansfield**—County let contract improving 3-mi. Mansfield-Millersburg Rd. to Ohio Concrete Constr. Co., $50,000.

★**O., Newark**—City let contract paving and improving Coshocton St., brick to Kieley & Son & Bolin, Newark, $19,669.

★**O., Steubenville**—(Official)—Ross Park Realty Co. let contract improving property by laying brick pavement, concrete base, grout filler, etc., to H. M. Bates, Steubenville, $35,341. Noted May 24 under Sewers.

★**O., Toledo**—City let contract paving portions Colburn and Chapin Sts., to Asphalt Block Pav't Co., 842 Ohio Bldg., $16,955; Dale St. to A. A. Reilly, $14,369.

★**Ind., Bloomfield**—Co. Comrs. let contract building Patrick Malone Rd., Harrison Twp., to Carpenter Constr. Co., Terre Haute, $53,719.

★**Mich., Nashville**—(Official)—Village let contract paving and improving portion Main St. to Marsman & Green, Grand Rapids, $28,000. Noted May 17.

★**Illinois**—State Highway Comn., Springfield, let contract building oiled earth roads, Henry Co. to Cameron, Joyce & Co., Keokuk, Ia., $23,215; earth road, McDonough Co., to Buis & Olson, St. Joseph, Mo., $3995; earth roads, Jefferson Co. to Collins & Irons, Mt. Vernon, $8259. Noted May 24.

★**Ill., Chicago**—Co. comrs. let contract improving 19-mi. Higgins Rd., to Improv. Co., 179 West Washington St., $448,000.

★**Ill., Jacksonville**—Bd. Local Improv. let contract paving 15,506 sq.yd. asphalt, 9028 lin.ft. curbing, 2694 cu.yd. excavation, etc. to Standard Paving Co., 29 South La Salle St., Chicago, $38,127.

★**Ill., Joliet**—City let contract paving portion Marion St. to F. W. Conway, 133 West Washington St., $30,219.

★**Ill., Ottawa**—City let contract loop paving to J. Cherry, Jacksonville, $108,761.

★**Wis., Marinette**—City let contract paving Gilbert, Morgan and Jackson Sts., and Terrace Ave. to Carlin & Magnusson, $27,227.

Wis., Milwaukee—Bd. Pub. Wks. received low bids (a) paving, (b) grading, (c) curb and gutter, (d) sidewalks on various streets, from White Constr. Co., Milwaukee, Midland Ave., (a) $2.20, (b) $1.15, (c) 15c., (d) 15c.; F. P. Coughlin Co., Milwaukee, Hartford Ave., (a) $2.21, (b) 50c., (c) 60c., (d) 15c.; 17th St., (a) $2.21, (b) 75c., (c) 65c., (d) 16c.; Badger Constr. Co., Milwaukee, Cramer St., (a) $0.235; North Ave., removing old pavement, 5c. per sq.yd., new paving $0.151, curb and gutter, $1.60.

★**Ia., Mason**—City let contract paving streets, asphalt, to Bryant Asphalt Paving Co., Waterloo.

★**Minn., Duluth**—City let contract paving portion 2nd Ave. to Rodgers & McLean, 601 1st Nat'l Bank Bldg., $24,395.

★**Minn., Moorhead**—City let contract paving 7th and 8th Sts. to C. T. Welch & Co., 2628 Humboldt Ave. S., Minneapolis, $37,995.

★**Neb., Fairbury**—(Official)—City let contract paving streets to Roberts Constr. Co., Lincoln, $2.27 per sq.yd. Noted May 31.

★**Ark., Walnut Ridge**—City let contract building 22-mi. road, Dist. No. 1, to N. Gregory, Texarkana, $110,000.

★**Tex., Bonham**—(Official)—County plans to improve roads, Hail Rd. Dist., by day labor. About $12,000. Noted May 17.

Colo., Pueblo—City received low bids paving streets, South Side Paving Dist., from Axton-Spratlen Constr. Co., Denver, $307,925.

★**Idaho, Lewiston**—Highway Comrs. let contract building 4½ mi. roads between Uniontown and Genesee and 5 mi. from Lewiston along Clearwater River to Mitchell Bros., Spokane, $68,073.

Washington—(Official) — State Highway Bd., Olympia, received low bids building 7.25-mi. Inland Empire Highway from Bernard & Grousoup, Richland, $22,800; Mitchell Bros., Spokane, $24,395; Keating & Jameson, Portland, $29,640. Noted May 17.

Wash., Bellingham—Co. Comrs. received low bids paving Mountain View Highway from K. Sauset, 711 Carolina St., $91,450; Ferguson Constr. Co., White Bldg., Seattle, $91,936; C. E. Lind, 1639 Humboldt St., $95,463.

Wash., Bellingham—Co. Comrs. received low bids paving Ferndale-Lynden Rd. from K. Sauset, 711 Carolina St., $108,202; Independent Asphalt Co., North Bank Bldg., Seattle, $113,863; Ferguson Constr. Co., White Bldg., Seattle, $117,422.

★**Wash., Goldendale**—Co. Comrs. let contract paving Goldendale-Glenwood Rd. to W. Liedl, Goldendale, $13,000.

★**Wash., Montesano**—Co. comrs. let contract paving 2¼-mi. Olympic Highway to Gray Harbor Constr. Co., Hoquiam, $40,426.

★**Wash., Sedro Wooley**—City let contract paving Nelson and Bennett Sts. C. L. La Plant, Sedro Wooley, $14,240. Noted Apr. 19.

★**Ore., Huntington**—See "Sewers."

★**Ore., Marshfield**—City let contract hard surfacing portion Central St., concrete, to Moon & Gidley, Marshfield, $39,886.

★**Cal., Santa Barbara**—City let contract paving, grading and curbing portion Bath, De La Vina and Montecito Sts. to Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, $84,426.

★**Cal., Santa Paula**—City let contract improving Santa Paula, Mill and other streets to Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, $53,000.

RAILWAYS—STEAM & ELECTRIC

Proposed Work

Maine—Burgess, Lang & Co., 201 Sears Bldg., Boston, promoting company to construct electric railway from South Newcastle to Boothbay Harbor.

New Jersey — Pennsylvania R.R. purchased 63 acres along Nottingham Way, Trenton, and will lay additional trackage. A. C. Shand, Broad St. Station, Phila., ch. engr.

Maryland — Pennsylvania R.R. plans branch from Back River, near Baltimore, to Bear Creek on Baltimore & Sparrows Point R.R., about 3½ mi. A. C. Shand, Broad St. Station, Phila., ch. engr.

Georgia—Atlanta, Birmingham & Atlantic Ry. having surveys made extension from Waycross to Jacksonville, about 75 mi. L. I. Beall, 30 Columbia Ave., Atlanta, ch. engr.

Florida—Tampa, Atlantic & Gulf Ry. plans 285-mi. railway from Tampa to east

Railways—Steam and Electric (Continued)

coast and from Tampa to gulf coast, to include 7 draw bridges, span 50 x 75-ft.; and 6-mi. concrete protected trestle located in 3 bridges. E. Walker, Tampa, secy. and treas.

Louisiana—Baton Rouge, Hammond & Eastern R.R. plans extension from Covington, La., to Gulfport, Miss., about 55 mi. Address A. S. Baldwin, Chicago, ch. engr. Illinois Central R.R.

Kentucky—Illinois Central R.R. will reduce grades and improve alignment on 55-mi. line from Princeton to Central City; also build 2nd track. A. S. Baldwin, 135 East 11th Pl., Chicago, ch. engr.

Iowa—Lafflet Electric Ry., recently incorporated with $300,000 capital stock, plans line from Pella to Wabasha. D. S. Umbenbauer, 932 Park St., Grinnell, pres.

Texas—Dallas Southwestern Traction Co. soon begins construction on line from Dallas to Irving and Cleburne. G. A. Kadine, Sapulpa, supt.

Oklahoma—Henryetta-Dewar Kusa Traction Co., incorporated with $350,000 capital stock, plans electric railway between Henryetta, Dewar and Kusa. B. Morgan, G. W. Burnett, J. J. Harrison, H. R. Christopher, L. E. Drummond of Dewar and M. Henderson, Kusa, incorporators.

Oklahoma—Osage County & Santa Fe Ry. receiving bids in about 30 days for line from Ralston to Owen, 62 mi. Address C. F. W. Felt, ch. engr., Atchison, Topeka, & Santa Fe R. R., Chicago, Ill.

Idaho—Oregon-Washington Railroad & Navigation Co. will soon begin construction on track-raising and ripraping roadbed for 20 mi., between Harrison and Enaville, to guard against floods. S Murray, Portland, ch. engr.

Wash., Seattle — City Comn. granted franchise to Port of Seattle Comn. to construct belt line railway along East Marginal Way from Spokane St., about 5 mi. C. E. Remsberg, secy. Noted Apr. 12.

California—Tri-City Ry. soon receives bids trolley line on Rock Island Arsenal. About $50,000. J. G. Huntoon, 125 West 3rd St., vice pres. and gen. mgr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Pennsylvania**—Pennsylvania R.R. let contract 10-mi. line from Besco near Clarksville up South 10 Mile Creek or to Homeville, to A. L. Anderson & Sons, Phila.

EXCAVATION AND DREDGING

Proposed Work

N. J., Cape May—(Official)—Dredging—Cap May Real Estate Co. plans, several million yards, also other improvements, as extensive Government operations are expected at this port.

N. J., Trenton—Dredging—State Dept. Commerce and Navigation will readvertise for bids dredging 2nd section of canal connecting Barnegat Bay with Manasquan River. Noted May 24.

Ky., Owensboro — Drainage — Comrs. Panther Creek D. D. soon let contract system to drain 65,000 acres. About $400,000.

Minn., Gaylord—Ditches — County sold $17,500 bonds to construct Judicial Ditches Nos. 5 and 6. F. Hoppenstedt, co. aud.

Minn., Montevideo—Ditch—County will sell $40,000 bonds to build County Ditches Nos. 21, 22, 27 and 33. J. J. Stennes, aud.

Mont., Helena—Canals, etc.—J. H. Smith, state engr., recommends construction of new canals and laterals on part of Mountainhome Coöperative Irrigation Co.'s system.

Tex., Mercedes—Irrigation,—American-Rio Grande Land & Irrigation Co. plans system around city, involving 350,000-cu.yd. dirt removal. About $50,000.

Ariz., Phœnix—Dam, etc.—W. J. Murphy, Phœnix, plans to construct dam across Gila River north of Gila Bend, and laterals from canal system to irrigate 75,000 acres.

Cal., Imperial — Irrigation — Laguna Water Co. authorized by Federal Government to take water from Colorado River at Laguna dam and construct canal to carry water for irrigating about 180,000 acres on "east side mesa," region northeast of lands served by Imperial Irrigation Dists. system which is too high to be reached by that supply.

Ont., Tilbury—Drainage—Twp. plans tile drainage work. About $100,000. H. J. Rocheleau, Stony Point, clk.

BIDS DESIRED

Fla., Arcadia—(Official)—Drainage—Until June 30 by E. B. Wilcoken, pres. bd. supervs., 33-mi. open drainage, ditches, requiring about 438,000-cu.yd. excavation. Cravens & Kimmel, Parker Bldg., engrs.

La., Oberlin—See "Streets and Roads."

La., St. Landry—(Official)—Until June 18 by C. F. Boagni, pres., Bayou Mallet and Plaquemine D. D., excavating 42.2-mi. ditch, bottom ranging from 6- to 28-ft., containing about 518,000-cu.yd. dirt. R. M. Hollier and W. B. Robert, Opelousas, engrs.

Tenn., Union City—See "Reinforced Concrete."

Ind., Frankfort—(Official)—Ditch—Until June 16 by W. E. Lowman, drainage comr., Court House for Charley Smith Ditch.

Ill., Onarga—(Official)—Drainage—Until June 20 by Drainage Comrs., Sub-Dist. No. 1 of Union D. D. No. 3, Artesia and Ridgeland Twps., for drainage work.

Minn., Austin — (Official) — Excavation, etc.—Until June 30 by A. C. White, co. engr., Court House, for 12,000-cu.yd. excavation, 17,000 cu.yd. borrow, 27,000 cu.yd. side borrow, 1000 cu.yd. side ditching, 1700 lin.ft. tiling.

Minn., Benson—Ditch—Until June 26 by D. P. Carney, co. aud., for Judicial Ditch No. 9, main ditch, 9 mi. long, 8- to 10-ft. wide at bottom, average depth, 9 ft.; 3 laterals, total length, 4 mi., bottom width, 8 ft.; about 337,795 cu.yd. excavation. S. B. Gardner, Benson, engr.

Minn., Mora—Ditching—Until June 19 by A. V. Sander, co. aud., for 6400-ft. side ditching and 1760-cu.yd. excavation.

S. D., Madison—Ditches—Until June 19 by Bd. Co. Comrs. for Lake Co. Drainage Ditches Nos. 5 and 6, involving 21,000 and 47,100 ft. tile various sizes, respectively. L. F. Hartwick, co. aud.

Wash., Yakima—Drainage—Until June 16 by C. E. Barrett, co. aud., for drainage system in Drainage Improv. Dist. No. 29, excavation, furnishing, laying and backfilling of about 2.04 mi. closed drain, structures and accessories.

Cal., Manhattan — See "Streets and Roads."

Ont., Hullett—Drainage—Until June 28 by J. Fingland, clk., Londerboro, draining Kinburn Swamp Drain and river improvement.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Albany—(Official)—Barge Canal Work—W. W. Wotherspoon, state supt. pub. wks., Capitol, received low bids, Contract "P," Cayuga and Seneca Canal, Sect. 1, constructing concrete cut-off wall below walls of Lock No. 3, Seneca Falls from Foundation Co., 233 Bway., New York City, $76,-412; J. Monk & Sons, 82 Beaver St., New York City, $83,497; Lupfer & Remick, Ellicott Sq., Buffalo, $104,712; Contract No. 144, Erie Canal, Sect. 9, constructing 2 concrete bridges over Red Creek, Genesee Valley Park, Rochester, from C. Kiehm, Utica, $43,456, J. F. Leary Constr. Co., Cutler Bldg., Rochester, $43,890, Lathrop, Shea & Henwood Co., Ellicott Sq., Rochester, $45,-265; Terminal Contract No. 44, barge canal terminal near East 138th St., Bronx Boro, from G. W. Rogers Co., Inc., 29 Bway., New York City, $193,651 and Phoenix Constr. Co., 41 Park Row, New York City, $211,897. Noted May 3.

★**Mich., Saginaw** — Drain — County let contract Cheboyganing Creek Drain to A. S. Gibson, Ithaca, $60,500.

★**Ill., Jacksonville** — See "Streets and Roads."

★**Ia., Council Bluffs**—Dredging—City let contract dredging portion Indian Creek to E. A. Wickman, 19 Scott St. About $20,-000. Noted May 17.

★**Minn., Crookston**—(Official)—Ditches—Co. let contract ditch work as follows: No. 112 and 120 to G. Castle, Crookston, $2435 and $1309 respectively; No. 116 to United Dredging Co., Grand Rapids, Wis., $5564; No. 117 to Union Drainage Co., Crookston, $7645. Noted May 24.

★**Mo., Benton**—Canals, etc.—Big Lake Basin D. D. let contract main canals and laterals to drain Big Lake Basin in Scott and Mississippi Cos. to Sternberg Bros.; tile work to A. J. Wheeler, Charleston.

★**Mo., Cape Girardeau** — (Official) — Ditches—Little River D. D. let contract scraper ditches to Vegelsaug Bros. Constr. Co., Cape Girardeau, $70,000. Noted May 3.

★**Cal., Sacramento**—Dredging—Knights Landing Ridge D. D. let contract dredging cut to drain Colusa Basin to Western Dredging Co., San Francisco, $200,000.

INDUSTRIAL WORKS

Proposed Work

Mass., Lawrence—Robinson Hardware Co., 361 Essex St., plans 2-story, 93 x 100-ft. garage. About $60,000. J. E. Allen, archt., 283 Essex St., soon receives bids.

Mass., New Bedford—Union Street Ry. Co., 814 Purchase St., is having plans prepared for 80 x 115-ft. power station. About $665,000. H. M. Hope, 185 Devonshire St., Boston, Engr.

N. Y., Amsterdam—McCleary, Wallin & Crouse, 55 Lyon St., had plans prepared by F. Sheldon & Sons, archts., Indiana Trust Bldg., Providence, for 3-story factory.

N. Y., New Hampton—B. G. Lewis, comr. dept. correction, Municipal Bldg., New York City, having plans prepared for 1-story, 58 x 308-ft. power house, laundry and store building. About $150,000. C. B. Meyers, 1 Union Sq., New York City, archt.

N. Y., Yonkers—Natl. Sugar Refining Co., foot of Main St., had plans prepared for boiler house About $140,000.

N. J., Paterson—F. L. Atherton Machine Co., 17 Market St., will build 4-story plant on Mill St. About $500,000.

Pa., Phila.—A. Colburn Co., 110 North 2nd St., having plans prepared by Ballinger & Perrott, archts., 17th and Arch Sts., for 8-story warehouse, 5th and Willow Sts.

Pa., Phila.—Pierce-Arrow Tire & Rubber Co. having plans prepared by J. O. Hont, archt., for factory at 21st and Lippincott Sts. About $150,000.

Pa., Warren—Warren Oil Co. purchased 12 acre site and plans blending plant. About $50,000.

Md., Baltimore — Baltimore Tube Co. plans additional unit at plant, 140 x 600-ft. About $500,000. C. W. Morse, pres.

Va., Suffolk—Sea Island Cotton Oil Co., Charleston, S. C., completed plans peanut-oil mill here. About $40,000 or $50,000. P. H. Eve., mgr.

N. C., Spray—Carolina Cotton and Woolen Mills Co. plans 175 x 200-ft. addition.

O., Akron—Bashaw Motor Sales Co., 60 South High St., soon lets contract 3-story, 110 x 116-ft. garage and sales room. About $70,000. G. Ball, 60 West Crozier St., archt.

O., Cambridge—Florentine Pottery Co. completed plans 2-story, 147 x 456-ft. plant.

O., Cincinnati—Davenport Paper Box Co., 239 Main St., had plans prepared by G. W. Drach, archt., 1701 Union Trust Bldg., 100 x 156-ft. factory. About $100,000.

O., Cincinnati—P. W. Drackett & Sons Co., Pickering Bldg., had plans prepared by R. E. Bostrom, archt., Pickering Bldg., for chemical plant, Spring Grove Ave. and Winton Pl. About $100,000.

Mich., Detroit—Booth Fisheries Co., 22 West Monroe St., Chicago, plans 11-story, 235 x 330-ft. cold-storage warehouse in Detroit. J. Scott & Co., archts., 2326 Dime Bank Bldg., Detroit, soon receives bids.

Ill., Chicago—Chicago Fuse Mfg. Co. 1014 West Congress St., plans 7-story factory, Congress and Morgan Sts. About $170,000.

Wis., Milwaukee—Hercules Steel Castings Co., care of F. E. McIntyre, 1102 Wells Bldg., plans 1-story, 70 x 500-ft. plant. About $100,000.

Wis., Milwaukee—R. A. Johnson, 270 Florida St., plans 5-story, 190 x 300-ft. factory. About $500,000. A. G. Zimmerson, archt., 10 South La Salle St., Chicago, soon receives bids.

Minn., Duluth—Ackerman Wheel Co., Cleveland, J. D. Park, Duluth and associates, plan to build aeroplane factory here. About $200,000.

Minn., St. Paul—Crescent Creamery Co., 3rd and Minnesota Sts., plans creamery on Jackson St. between Grove and 14th Sts. About $150,000.

Mo., St. Joseph—Batreall Shoe Co., 4th and Jule St., plans 7-story, brick and stone factory. About $70,000. R. Meir, Lincoln Bldg., archt.

Tex., Toyah—United States Sulphur Co., recently incorporated with $600,000 capital stock, plans sulphur refinery at sulphur mine near here. About $300,000. R. L. Spann, 501-5 Linz Bldg., Dallas, pres.

Tex., Ft. Worth—See "Reinforced Concrete."

Wash., Seattle—Hendricks Mfg. Co. had plans prepared by F. W. Grant, archt., Mehlhorn Bldg., for 100 x 128-ft. machine shop, 1st Ave. S. and Horton St.

Man., Winnipeg—Stewart Shear Loader Co., Ltd., 470 Martin Ave., plans factory to manufacture agricultural implements. About $75,000. J. S. Menzies, mgr.

Ont., Hamilton—Natl. Machinery Co., 72 Wellington St., W., plans plant. About $75,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Malden**—Boston Rubber Shoe Co. let contract mill to Fiske-Carter Constr. Co., 11 Foster St., Worcester, $100,000.

Industrial Work (Continued)

★**Conn., Torrington**—Hendley Machine Co., 105 Summer St., let contract 4-story, 80 x 125-ft. addition to plant to Torrington Bldg. Co., Main St. Noted Apr. 12.

★**N. Y., Geneva**—Patent Cereal Co., care of Mr. Licht, let contract 3-story, 50 x 70-ft. mill to Monarch Engr. Co., Chamber of Commerce Bldg., Buffalo.

★**N. Y., New York**—Metropolitan News Co., 164 Henry St., let contract garage, 47-53 Chrystie St. to H. Besking, 735 Greene Ave., Brooklyn, $100,000.

★**N. J., Newark**—Alcohol Products Co., foot of Blanchard St., let contract plant to F. Kilgus, Inc., 13 South 6th St. About $70,000.

★**Pa., Chester**—Chester Paper Co., care of Scott Paper Co., 7th and Glenwood Ave., Phila., let contract finishing building to Turner Concrete Steel Co., 1713 Sansom St., Phila., $200,000.

★**Pa., Phila.**—See "Reinforced Concrete."

★**Wash., D. C.**—See "Reinforced Concrete."

★**Va., Newport News**—Newport News Shipbuilding & Dry Dock Co. let contract 4-story, 50 x 250-ft. addition to plant to J. Stewart & Co., 30 Church St., New York City. Noted May 24.

★**O., Cleveland**—K. V. Painter, 212 Vickers Bldg., let contract manufacturing building and garage to Ferguson & Flanigan Co., 210 Vickers Bldg., $80,000. Noted May 31.

★**O., Youngstown**—Brier Hill Steel Co., Stambaugh Bldg., let contract extending plant to United Engr. & Fdry. Co., 307 5th Ave., Pittsburgh, $1,000,000.

★**Ill., Chicago**—Melba Mfg. Co., 4237 Indiana Ave., let contract 3-story, 33 x 118-ft. addition to factory and power house to J. P. O'Connor, 189 West Madison St. Noted May 17.

★**Wis., Milwaukee**—E. H. Karrer Co., 278 West Water St., let contract 4-story, 30 x 126-ft. plant, 246 West Water St., to Dahlman Constr. Co., Majestic Bldg. Noted May 24.

★**Minn., Newport** — Farmers Terminal Packing Co., 919 Commerce Bldg., St. Paul, let contract packing plant to S. M. Klarquist & Son, 247 Security Bank Bldg., Minneapolis, $400,000.

★**Wash., Northport**—Northport Smelting & Refining Co. let contract addition to C. L. Graves, 2108 Montgomery St., Spokane, $100,000.

★**Cal., Los Angeles**—W. Garland let contract automobile sales and assembling building to Leonardt & Peck, 721 H. W. Hellman Bldg., $70,000.

★**Que., Montreal** — See "Reinforced Concrete."

★**Man., Winnipeg**—City let contract addition to power plant to Van Hornebeek & Young, 464 Provencher Ave., St. Boniface, $185,370.

BUILDINGS

Proposed Work

Mass., North Attleboro—High School—Bd. Educ. having plans prepared for new high school.

Conn., Hartford—Hotel—New Hotel Co., Inc., recently incorporated with $800,000 capital stock, plans. C. E. Whitney, pres.

Conn., South Norwalk—School—Bd. Educ. plans. About $50,000. J. A. Jackson, archt., 1123 Bway., New York City, soon receives bids. Noted May 24.

N. Y., Buffalo—Parochial School—St. James Congregation had plans prepared by C. Schmitt & Sons, archts., Prudential Bldg., 2-story, 70 x 105-ft.

N. Y., Peekskill — Dormitory — Peekskill Military Academy had plans prepared by F. A. Moore, archt., 52 Vanderbilt Ave., New York City, 3-story, 40 x 100 ft.

N. Y., Syracuse—Schools—Bd. Educ. soon lets contract for Edward Smith and Webster Schools, also addition to George Washington School. About $268,000.

Pa., Doylestown — School — Natl. Farm School plans 2-story addition. About $50,000. H. D. Allman, 1001 Chestnut St., Phila., chn. bldg. com. Magaziner & Potter, archts., 603 Chestnut St., Phila., soon receives bids.

Pa., Minersville — School — School Bd. plans, (2). About $100,000.

Pa., Phila.—Church—1st Reformed Congregation plans, 50th and Locust Sts. About $150,000.

Pa., Phila.—Hospital—Council authorized appropriation of $388,000 for improvements and extension to city general hospital. C. Albright, city engr.

Pa., Phila.—Office—Mershon Bros., Land Title Bldg., plans, 12-story, brick, stone and terra cotta, 65 x 145-ft., Chestnut St. F. Webber, Morris Bldg., archt.

Cal., Palo Alto—See "Reinforced Concrete."

Cal., Richmond—Office—Standard Oil Co. of California plans, brick and steel. About $140,000.

BIDS DESIRED

Conn., Ansonia—Bank—Until June 16 by Ansonia Natl. Bank, 165 Main St., 1-story, graphite limestone or art stone. About $60,000. Mowbray & Uffinger, 56 Liberty St., New York City, archts. Noted June 7.

N. Y., Batavia—School—Until June 18 by Union Free School Dist. No. 2. About $200,000.

N. Y., Syracuse—School—Until June 25 by Bd. Educ., 1-story, 115 x 169-ft. About $110,000. Russell & King, 602 Snow Bldg., archts.

N. J., Bordentown—School—Until June 22 by F. H. Bent, state archt., Trenton, for Manual Training and Industrial School for Colored Youths.

Fla., St. Augustine—(Official)—Hospital—Until June 23 by Trustees Flagler Hospital, 3-story, brick and rein.-con. About $100,000. F. A. Hendrich, 26 Cathedral St., archt.

O., Cleveland — (Official)—School—Until July 9 by Bd. Educ., Rockwell Ave. and East 6th St., for 3-story, 75 x 175-ft. Gladstone School. About $200,000. F. G. Hogen, dir. W. R. McCormick, Rockwell Ave. and East 6th St., archt. Noted May 10.

O., De Graff—School—Until June 25th by S. Siegenthaler, clk., bd. educ. Harrison School Dist.

O., Mt. Vernon—(Official)—Hospital—Until June 26 by Ohio Bd. Administration, Oak and 9th Sts., Columbus, for Ohio State Sanitorium. Richards, McCarty & Bulford, Hartman Bldg., Columbus, archts.

O., Portsmouth — Grade School — Until June 25 by W. C. Haxelbach, clk. bd. educ., Royal Assn. Bldg., 2-story. About $60,000. Ritter & Bates, 45 1st Natl. Bank Bldg., archts.

Ia., Nevada—Home—Until June 25 by County 2-story, brick, stone and concrete. About $70,000. F. E. King, aud. Damon & O'Mera, 14 Mason Bldg., Ft. Dodge, archts. Noted May 3.

Ia., Traer—(Official) — School — Until June 29 by Bd. Educ. About $85,000. T. F. Stoakes, secy. G. L. Lockhart, 391 Endicott Bldg., St. Paul, archt.

Minn., Ironton — Grade School — Until June 23 by P. N. Haughtelin, supt. ind. school dist. No. 51, 2-story. About $100,000. E. F. Broomhall, 710 Alworth Bldg., Duluth, archt. and engr.

Kan., Augusta—School—Until June 25 by Bd. Educ., brick and stone. About $55,000. G. Watson, clk. Noted May 17.

Kan., Larned—Court House—Until June 26, by W. E. Hulse & Co., archts., 1st National Bank Bldg., Hutchinson, 3-story, brick, stone, concrete and steel. About $100,000. H. Dexter, co. clk.

Neb., Hastings—Until June 21 by Bd. Educ. for 2-story, 78 x 139-ft. brick, stone and concrete addition to Lincoln School. About $75,000. H. Davidson, secy.

Neb., Reynolds—School—Until June 20 by W. O. Hall, secy. bd. educ. C. J. Bowell, 719 East 7th St., York, archt.

Ark., Magnolia—School—Until July 1 by School Bd., 2-story, brick. About $50,000. Address W. H. Warnock.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—(Dorchester)—School—City let contract, Hutchins and Brookledge Sts., to Murphy Constr. Co., $85,830.

★**Mass., Whitinsville** — Office — Whitins Machine Co. let contract to Stone & Webster Co., 147 Milk St., Boston, $60,000.

★**N. Y., Buffalo**—Parish House — Westminster Presbyterian Congregation let contract to R. E. Williams, 809 Iroquois Bldg., $65,000. Noted May 3.

★**Pa., Harrisburg** — Hotel — Harrisburg Hotel Co. let contract Hotel Penn Harris, 11-story, to Nelson & Lewin, 1429 S St., W., Wash., D. C.

★**Pa., Phila.**—School—St. Agatha's Congregation let contract, stone and concrete, to J. McShain, 1610 North St., $130,000.

★**Pa., Phila.** — Store — See "Reinforced Concrete."

★**Pa., Phila.**—Sunday School—Walnut St. Presbyterian Congregation let contract to J. Johnston, 1721 Ludlow St., $60,000. Noted May 10.

★**Pa., Throop**—High School—Bd. E... let contract to Boland Bros., 425 La...wanna Ave., Olyphant, $100,000.

★**Wash., D. C.**—Theater—Crandall ...ater Co., 9th and E Sts., N. W., let ...tract, 10th St., to F. L. Wagner, 141... St., N. W. About $125,000. Noted Apr. ...

★**O., Cuyahoga Falls**—Schools—Bd. E... let contract additions, to Drummond & ...ler, Electric Bldg., Cleveland, $50,000.

★**O., Van Wert**—School—Ridge ... School Bd. let contract to Handsby & ... Zanesville, $55,000.

★**Ind., West Lafayette**—(Lafayette ... O.)—Armory—Purdue University let ...tract to L. Colvin, Anderson, $250,... Noted May 10.

★**Mich., Tecumseh** — Grade and Hi... School—Bd. Educ. let contract to V. ... Gettins, 521 Darr St., Toledo, $75,000.

★**Ill., Chicago**—Bank—University St... Bank let contract 2-story, brick, to R. S... litt & Sons Co., 73 South Adams St., $75,...

★**Wis., Appleton**—Chapel—Lawrence Co...lege let contract to C. R. Meyers, 50 St... St., Oshkosh. About $80,000 or $100,000.

★**Wis., Marshfield**—Hospital — Trustees St. Joseph's Hospital Assn. let contract addition to Wagner & Baumann, Monroe, $175,000.

★**Ia., Mason City**—Church—Congregation of Church of Christ let contract to W. O'Neil & Sons Co., Faribault. About $75,612.

★**Minn., Northfield** — Women's Bldg. — Carleton College let contract to H. N. Leighton Co., 127 South 10th St., Minneapolis, $75,000.

★**S. D., Redfield**—(Official)—School—Bd. Educ. let contract to H. F. Stolte, Redfield, $67,333. Noted May 10.

★**Mont., Helena**—Theatre, Store and Office—J. A. Van Wie, Hotel Leamington, Minneapolis, let contract to H. C. Thompson, Great Falls, $200,000.

★**Tex., Sour Lake**—School—Bd. Educ. let contract to M. C. Bowden, 1801 C St., Galveston, $85,000. Noted May 17.

★**Ore., Enterprise** — High School — Bd. Educ. let contract to J. Almeter, Portland

Cal., Sacramento—School—City received low bid Washington School from H. S. Williams, Hearst Bldg., $238,216.

★**Cal., Santa Barbara**—Club—Santa Barbara Club let contract to Winter & Nicholson, 705 Marsh-Strong Bldg. About $95,000 or $100,000.

FEDERAL GOVERNMENT WORK

Proposed Work

N. J., Wrightstown—Camp—U. S. Government soon receives bids for mobilization camp, including electric-light plant, mess halls, barracks, storehouses, stables, shops, hospital and rifle range, covering about 4000 acres. Estimated cost $1,000,000.

Wash., D. C.—Bridge—Dist. Comrs. rejected bids 7-span steel plate girder bridge on Bennings Rd. New bids. Noted June 7.

O., Washington C. H.—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., rejected bids. Noted May 31.

Wyo., Cody—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., rejected bids. Noted May 24.

Ark., Prescott—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., rejected bids. Noted May 31.

Cal., Linda Vista—(San Jose P. O.)—Camp—U. S. Army Dept. selected 8000-acre site near here for training camp for new army to be raised. Construction work will be started as soon as formalities of executing lease with Government have been completed. City of San Diego will construct roadways to site and provide water, gas and electricity. Atchison, Topeka & Santa Fe R.R. will construct spur track to camp. About 2000 buildings will be erected to accommodate 30,000 troops. 30,000,000 ft. lumber will be required and labor will amount to $200,000.

BIDS DESIRED

Mass., Newburyport—Post Office—Until July 16 by J. A. Wetmore, superv. archt., treas. dept., Wash.

R. I., Newport—Power Plant—Until June 18 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., furnishing and installing turbo-alternators, condensers, pumps, exciters, boilers, stokers, draft fans, and piping for power plant at Naval Training Station.

N. Y., Buffalo — Superstructure — Until July 10 by U. S. Engr. Office, Buffalo, stone-concrete superstructure on breakwater, Buffalo Harbor; advertised in this issue.

Federal Government Work (Continued)

Del., Wilmington—Dredging—Until July 5 by U. S. Engr. Office, Wilmington, dredging Toms River and Abasecon Creek, N. J.; advertised in this issue.

Md., Annapolis—Artesian Well — Until June 25 by Bureau Yards and Docks (F. R. Harris, ch.) Navy Dept., Wash., for constructing at Naval Academy.

Wash., D. C.—Bridges—Until June 16 by O. P. Newman, dist. comr., 2 bridges on line of 61st St., between Southern Ave. and Clay St.

Wash., D. C.—Repair Shop—Until June 25 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., for addition to nautical instrument repair shop at Naval Observatory.

Cal., Vallejo—Storehouse—Until June 25 by Commandant, Navy Yard, Vallejo, for rein.-con. general storehouse.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Ft. Andrews—Reservoir—Constructing Quartermaster, Ft. Warren, Boston, received only bid 300,000-gal. concrete reservoir, from Hallett-Grant Constr. Co., 136 Federal St., Boston, $18,149. Noted May 24.

★**Conn., New London** — Wharf — U. S. Coast Guard, Wash., let contract pile and timber wharf at Coast Guard Academy to Robins-Ripley Co., 50 Church St., New York City, $15,000. Noted June 7.

★**Pa., Berwick**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to Hagen Lumber Co., Inc., Hickory Mattes St., Scranton, $44,913. Noted June 7.

★**Pa., Indiana**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to W. H. Fissell & Co., 1328 Bway., New York City, $58,700. Noted May 31.

Wash., D. C.—Building—Bureau Yards and Docks, Navy Dept., received low bids extension of Building No. 16, St. Juliens Creek, Va., from J. Seay, Petersburg, Va., $8238; Nichols & Lindemann, Seaboard Bank Bldg., Norfolk, $9494; Penn Bridge Co., Bond Bldg., Wash., $9947. Noted May 31.

Wash., D. C.—Laboratory—Donn & Deming, archts., 808 17th St., N. W., received bids, radio laboratory building for Bureau of Standards, from H. E. Watts Co., Garrett Bldg., Baltimore, $95,000; Melton Constr. Co., Real Estate Trust Bldg., Wash., $93,800. Noted May 24.

Wash., D. C.—Sewers—Dist. comrs. received bids sewers from W. F. Cush, Wash., service sewer; W. H. H. Allen Constr. Co., Wash., Dale Carlia Sewer; W. F. Brenizer Co., 1st St., Stickfoot branch sewer; L. M. Johnston, Arlington, Va., James Creek Valley sewer. Noted Apr. 26.

Wash., D. C.—Shell Houses, etc.—Bureau Yards and Docks, Navy Dept., received low bids, June 4, constructing shell houses, torpedo storehouse, and magazine building at Naval Ammunition Depot, St. Julien's Creek, Va., (a) work, complete, (b) magazine building and 2 shell houses complete, (c) torpedo storehouse, complete, (d) magazine building, (e) deduct from (a) if galvanized sheet steel is used in lieu of copper, (f) add to or deduct from for one or more interior bays added to or deducted from magazine building and each shell house in (b) from M. J. Roche Constr. Co., 301 Johnson Bldg., Cincinnati, (a) $110,850, (b) $79,590, (c) $31,560, (d) $26,700, (e) $1177, (f) $2209; Penn Bridge Co., Bond Bldg., Wash., (a) $111,433, (b) $77,663, (c) $33,770, (d) $25,887, (e) $3106; J. Seay, Petersburg, Va., (a) $112,430, (b) $83,430, (c) $29,000, (d) $28,630, (e) $600, (f) $2450. Noted May 24.

Va., Norfolk—Fence—Bureau Yards and Docks, Navy Dept., Wash., received low bids from Cyclone Fence Co., Waukegan, Ill., 9-ft. fence, $16,293; 6-ft. fence, $5473; Anchor Post Iron Works, 165 Bway., New York City, $18,668. Noted May 31.

★**Fla., Lakeland**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to Wise Granite & Constr. Co., American Natl. Bank Bldg., Richmond, $45,500. Noted May 31.

Fla., Sanford—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received only bid from A. Blair, Hill Bldg., Montgomery, Ala., limestone, $50,189. Noted May 10.

★**Ill., Charleston**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to G. W. Stiles Constr. Co., Rookery Bldg., Chicago, $46,236. Noted May 31.

Ill., Olney—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids from Michie Constr. Co., 86 Michigan St., Milwaukee, $44,970; G. W. Stiles Constr. Co., Rookery Bldg., Chicago, $46,256; Hiram Lloyd Bldg. & Constr. Co., Odd Fellows B ldg., St. Louis, Mo., $47,818. Noted May 3.

★**Minn., Bemidji**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to J. Lauritzen Co., Fergus Falls, Minn., $39,990. Noted May 3.

Tex., Orange—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received only bid from A. Blair, Hill Bldg., Montgomery, Ala., limestone, $54,472. Noted May 3.

Okla., Altus—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received bids from W. D. Lovell, 1415 8th St., S.E., Minneapolis, $46,200; W. O'Neil & Sons Co., Faribault, Minn., $47,039; G. W. Stiles Constr. Co., Rookery Bldg., Chicago, $48,274, alternate bid, deduct $100. Noted May 24.

★**Okla., Durant**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to W. D. Lovell, 1415 8th St., S.E., Minneapolis, Minn., $45,721. Noted May 3.

★**Wash., Bremerton** — Cranes — Bureau Yards and Docks, Navy Dept., Wash., let contract furnishing shipbuilding cranes at Puget Sound Navy Yard, to McMyler Interstate Co., Stop 27, A. B. C. Electric Ry., $230,727. Noted June 7.

Cal., Golden Gate—(Oakland P. O.)—U. S. Coast Guard, Custom House, San Francisco, received low bids, constructing Coast Guard Station No. 324 at Golden Gate, from Schoder Bros., $5800; C. Terranova & L. Elograrvi, $6595; G. Barnieri, $6814; all of San Francisco. Noted May 17.

MISCELLANEOUS

Proposed Work

Transmission Line—Moodus, Conn.—Pub. Utilities Comn. approved petition presented by Central Connecticut Power & Light Co., East Hampton, constructing line from Moodus to East Glastonbury, using double galvanized wire.

Playground—New York, N. Y.—C. Ward, park comr., Municipal Bldg., plans, on 1st Ave., between 67th and 68th Sts. About $36,000.

Park Improvements—Yonkers, N. Y.—D. F. Fullon, city engr., preparing plans improving Glen Park. About $25,000.

Dry Dock—Gloucester City, N. J.—New York Shipbuilding Co., 120 Bway., New York City, plans.

Retaining Walls—Erie, Pa.—City Engr. Dept. soon receives bids retaining walls for Parade St. Subway. About $13,000. F. G. Lynch, city engr.

Subway—Erie, Pa.—City Engr. Dept. soon receives bids grading for Division St. subway. About $12,050. F. G. Lynch, city engr.

Wood Pipe—Pinegrove, Pa.—(Official)—Boro. soon receives bids laying about 2.8 mi. 10-in. wood pipe. Pipe to be furnished by boro.; advertised in this issue.

Transmission Line—Laurinburg, N. C.—Palmetto Power & Light Co. having surveys made, line from Laurinburg to point on Wateree River, about 7 mi. from Camden, S. C. Energy will be obtained from Wateree Power Co. C. E. Johnson, pres.

Transmission Line—Pacolet, S. C.—Pacolet Mfg. Co. plans to equip Pacolet Mills and Gainesville (Ga.) Cotton Mills for electrical operation. Transmission lines will be constructed from Dunlap plant on Chattahoochee River, about 3 mi. distant. Motors ranging from 5- to 150-hp. will be installed, and energy will be supplied from Georgia Railway & Power Co., Atlanta, Ga. About $200,000.

Transmission Line—Tallulah Falls, Ga.—Georgia Railway & Power Co., plans, from Tallulah Falls to Royston, 35 mi., thence to Elberton, 18½ mi. G. W. Brine, Electric & Gas Bldg., Atlanta, vice pres. and genl. mgr.

Subway—Anderson, Ind.—Cleveland, Cincinnati, Chicago & St. Louis R.R., city and Madison Co., plan subway under tracks on Main St. About $37,000. C. A. Paquette, Cincinnati, ch. engr.

Retaining Wall — Elwood, Ind. — City Council considering placing retaining wall along either bank of Duckcreek, between South A and 1st alley north of Main St. A. D. Moffitt, city engr. About $22,167.

Elimination Grade Crossings—Indianapolis, Ind.—Lake Erie & Western R.R. will eliminate "Dead Man's Crossing" on Allisonville Pike, between Indianapolis and Noblesville. About $200,000. J. K. Connor, Indianapolis, ch. engr.

Park—Milwaukee, Wis.—City plans to issue $40,000 bonds for improving Kosciusko Park. G. Staal, city engr.

River Improvements—Des Moines, Ia.—Polk, Jasper, Warren and Marion Cos. will straighten Des Moines River, 20 mi. About $1,000,000. S. Dean, engr.

Transmission Line—Concordia, Kan.—Concordia Electric Light Co. plans extending, to Cuba, Aganda, Haddam and Washington.

Bathing Beach—Kansas City, Kan.—City made plans. About $15,000. W. Barclay, city engr.

Incinerating Plant—Kansas City, Mo.—City plans, foot of Bway, capacity 100,000 tons. About $100,000. C. Hill, city engr.

Garbage Plant—Columbia, Mo.—Cities of Columbia, Dupo and East Carondelet plan, on river bank to serve all 3 cities. M. Rapp, Columbia, interested.

Levees—Dallas, Tex.—Dallas Co. Levee Improv. Dist. No. 2, voted $1,180,000 bonds to improve levees.

Coliseum—Waco, Tex.—C. H. Cox, chn. bldg. com., Cotton Palace Assn., soon receives bids, 196-200 ft. rein.-con. brick and tile. About $50,000. M. W. Scott & Co., archts., 412½ Franklin St., prepared plans.

Park Improvements — Hobart, Okla. — City plans to issue $10,000 bonds to improve parks.

Transmission Line — Hollister, Idaho — Idaho Power & Light Co., Boise, plans to extend to this village to furnish electricity for lamps and motors. H. B. Watts, Empire Bldg., Boise, ch. engr.

Park Improvements, etc.—Salt Lake City, Utah—See "Sewers."

Transmission Line—Portland, Ore.—Co. comrs. granted franchise to Portland Railway & Light Co. to erect line on Columbia River highway, from automobile clubhouse to Crown Point, subject to approval of Dist. Attorney. H. L. Clark, Electric Bldg., Portland, vice pres.

Pipe—Edmonton, Alta.—City soon receives bids 12,000 ft. 6-in. pipe, Class "C." A. W. Haddow, act. city engr.

Bids Desired

Retaining Wall—Winsted, Conn.—Until June 18 by Selectmen, on Main St.

Duct Line—Brooklyn, N. Y.—Until June 18 by Pub. Ser. Comn. for 1st Dist., 120 Bway., New York City, for railroad duct line for part of Eastern Pkway. Rapid Transit R.R. (East 98th St. and Livonia Ave.), Route No. 31.

Lime—Long Island City, N. Y.—Until June 20 by M. E. Connolly, boro. pres., furnishing and delivering 100 net tons hydrated lime to Newtown disposal plant, 2nd Ward; 200 net tons to Jamaica (4th ward) and Far Rockaway (5th ward) disposal plants.

Boilers, Etc.—Newark, N. Y.—(Official)—Until June 22 by A. W. Beaven, pres. bd. managers, New York State Custodial Asylum for Feeble-Minded Women, for 2 new boilers, heating work, stokers, piping, etc.; advertised in this issue.

Carts—New York, N. Y.—Until June 20 by J. T. Fetherstone, comr. street cleaning, furnishing 75 hose reel carts.

Snow Plows—New York, N. Y.—Until June 20 by J. T. Fetherstone, comr. street cleaning, Municipal Bldg., furnishing and delivering 50 snow plows.

Ky., Pikeville—See "Reinforced Concrete."

River Improvements—Olive, Cal.—Until June 23 by Olive and West Olive Protection Dist., 1st Natl. Bank of Olive, furnishing any portion of following material: 1750 20-ft. cedar or O. P. piles; 750 50-in. Ellwood fence, or 58- or 52-in. American fence; 300 lb. steel wire galvanized chisel point 1½-in. fence wire staples, and 16,320 lb. ¾-in. galvanized steel wire, part delivered on railroad siding at Orange and balance on railroad siding at Olive.

River Improvement—Hullett, Ont.—See "Excavation and Dredging."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Transmission Line—West Danville, Vt.**—Hortonia Power Co., Brandon, let contract line from West Danville to Barnet and Pike Hill copper mines and connecting proposed new plant at West Danville with those of company at Barnet, Groton and Ryegate, to P. Ricci, Rutland.

★**Ferry Slip—Greenwich, Conn.**—Interstate Ferry Co. let contract slip at Greenwich and Oyster Bay, L. I., to Steen Symas Co., 30 Church St., New York City, $25,000.

★**Swimming Pool—Phila., Pa.**—City let contract, 17th St., to R. P. Bennis, Chew and Price Sts., $45,000.

★**Pier — Norfolk, Va.** — See "Reinforced Concrete."

★**Retaining Wall—Wheeling, W. Va.**—Bd. Co. comrs. let contract retaining walls and culverts for Middle Wheeling Creek Rd. to C. B. Kimberley, Natl. Bank Bldg.

★**Pipe—Centerville, Cal.**—Graves Bros. let contract furnishing about 6 mi. 24-in. cement pipe to Concrete Pipe & Constr. Co., Porterville.

SEARCHLIGHT SECTION

Contracts To Be Let

PROPOSALS

Bids received until June 26, 1917.

Barge Canal Work

STATE OF NEW YORK, OFFICE OF SUPERINTENDENT OF PUBLIC WORKS

Albany, N. Y., May 22nd, 1917.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, June 26th, 1917, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and of the acts amendatory thereof and supplementary thereto, and Chapter 570 of the Laws of 1915, as follows:

CONTRACT NO. 146.

Erie Canal—Section 4.

For constructing a new movable dam to replace existing Dam No. 14 at Herkimer.

Sheets 1 to 7, inclusive.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in th eCity of Albany or New York, issued by a national or State bank in good credit within the State and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent.) of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the State will be enhanced thereby.

W. W. WOTHERSPOON,
Superintendent of Public Works.

Official Proposals

Price, $3.60 an inch—Copy can be received until Wednesday, 10 a. m. for issue mailed the next day

PROPOSALS

Bids received until June 20, 1917.

Lateral Sewers

Scarsdale, N. Y.

Sealed proposals for the construction of lateral sewers and appurtenances in the Village of Scarsdale, New York, will be received until 8 P.M. on Wednesday, June 20th, and will then be publicly opened and read by the Street Commissioner of the Village of Scarsdale, at his office in the Town Hall of Scarsdale, who will report thereon to the Board of Trustees.

Plans and specifications may be seen and blank forms of proposals obtained at the office of Waring, Chapman & Farquhar, civil engineers, 874 Broadway, New York City.

A charge of $3.00 will be made for plans and specifications furnished to applicants therefor.

Each proposal must be made on one of the blank forms provided, and must be accompanied by a certified check for $1000.00.

The amount of bond for faithful performance, to be furnished when the contract is executed, will be the amount of the contract price as computed from the accepted bid.

The proposed work consists of approximately 11,000 lineal feet of 8-inch pipe sewer, with manholes, flush-tanks, etc., and is to be completed by December 1st, 1917.

The Board of Trustees reserves the right to reject any or all bids.

Scarsdale, N. Y., May 29th, 1917.

By order of the Board of Trustees,
JOHN R. ROSS, Village Clerk.

PROPOSALS

Bids received until June 26, 1917.

Bituminous Macadam Road

Belvidere, N. J.

Sealed bids or proposals will be received by the Board of Chosen Freeholders of the County of Warren, in the State of New Jersey, for the completion of 4.107 miles of Bituminous Macadam Road, known as the Washington-Buttzville Road, Section No. 1, according to the terms of the contract made with Raphael A. Capone on April 14, 1916, at their office at the Court House in Belvidere, New Jersey, on

WEDNESDAY, JUNE 20, 1917,
at 10.30 A. M.

Each bidder must accompany his bid with a certified check, payable to the County Collector of the County of Warren, for One Thousand Dollars, as a guarantee, according to law.

Said contract, with its attached plans and specifications, together with an estimate of the work already performed and material now upon the line of work, are on file for examination at the office of Harry W. Vetter, County Engineer of Warren County, in the Court House, Belvidere, New Jersey, where blank proposals may also be obtained.

The right is reserved to reject any or all bids.

By order of the Board of Chosen Freeholders of the County of Warren.

MORRIS S. FAUST, Clerk.

Bids received until June 21, 1917.

Paving

Lebanon, Pa.

Sealed proposals directed to Dan. M. Sharp, City Clerk, will be received by the Mayor and Council of the City of Lebanon, Pa., at the City Hall until 5 P. M., Thursday, June 21, 1917, for the furnishing of all labor and materials required to construct pavements as follows:

Seventh Street, approximately, 1100 square yards

Sixth Street, approximately, 2800 square yards

New Street, approximately, 1600 square yards

Fifth Street, south of Willow, approximately, 2600 square yards

Fifth Street, north of Willow, approximately, 3100 square yards

Alternate bids will be received on a 6-in. concrete pavement and on wood block, vitrified brick, bitulithic and topeka each on 5-in. concrete base.

Specifications, proposal blanks and information concerning the manner of submitting bids can be obtained from the City Engineer upon a deposit of Five Dollars ($5), which will be refunded upon the return of specifications in good condition.

Plans of streets and standard structures may be seen at the City Engineer's Office.

Certified checks of the different amounts called for on the several proposals must accompany each bid.

The Mayor and Council distinctly reserve the right to reject any or all bids and to award the contract as is deemed to the best interest of the City of Lebanon.

PAUL A. VOLCKER, City Engineer.